# The American Artisan

## THE HARDWARE RECORD

Volume 44—No. 26. CHICAGO, DECEMBER 27, 1902. $2.00 Per Year.

**Columbus Bolt Works,**

Columbus, O.

Bolts,
Nuts,
Washers,
Turn
Buckles,

Bridge and Roof Rods and ALL KINDS OF CARRIAGE FORGINGS. CATALOGUE ON APPLICATION.

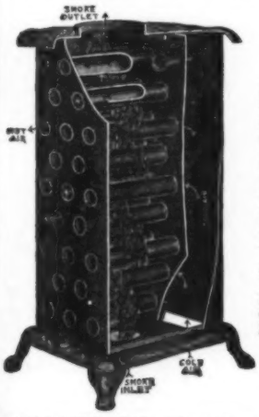
**Bolts**

**PURE "SAMPSON" ASPHALT BRAND" ROOFING**

Never Dries Out or Cracks. Planet Brand Tarred Ready Roofing, Slaters' Felt, Building Papers, Roofing Cements, Paints, Etc. WRITE US FOR PRICES.

**J. L. PERKINS & CO., 235 Lake St., CHICAGO**

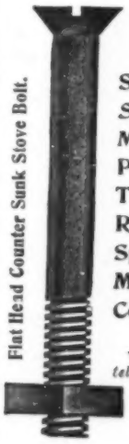
**INDEPENDENT STOVE PIPE RADIATORS.**




Don't Buy Radiators Without Learning About the INDEPENDENT for 1902.

INDEPENDENT REGISTER CO.
CLEVELAND, O.

**THE ATLAS BOLT & SCREW CO.**
CLEVELAND, OHIO




have unsurpassed facilities for the manufacture of

Stove Bolts,
Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

We have a large *clientele* among stove men who appreciate our high quality, prompt deliveries and attractive prices. Let us hear from you.

**DON'T SMOKE!!**

and is odorless—never cracks—will not crumble or fall out. American Seal Stove Putty makes tight joints and prevents the escape of gas or ashes. Bakes hard as iron and will last a lifetime. Is highly recommended by all who use it. A money saver.

THE WILLIAM CONNORS PAINT MFG. CO.
Department A. Troy, N. Y.

**BRADLEY SHELF BRACKETS.**

Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

**E. J. JOHNSON & CO.,**
38 PARK ROW, NEW YORK,
Producers of
**ROOFING SLATE**
Slate Blackboards. Write for delivered prices.

**Black Diamond Files and Rasps.**

PERFECT—ALWAYS

Twelve Medals Awarded

At International Expositions.

**G. & H. BARNETT CO.,**
Black Diamond File Works, PHILADELPHIA, PA.

THIS SPACE FOR SALE
Inquire of Owner
Daniel Stern, 69 Dearborn St.
CHICAGO

**Nicholson File Co.**

GENERAL OFFICES: PROVIDENCE, R. I., U.S.A.
Manufacturers of

**FILES and RASPS**

NICHOLSON, KEARNEY & FOOT, ARCADE, AMERICAN, GREAT WESTERN, McCLELLAN, EAGLE, J. B. SMITH, "X. F." GOLD MEDAL.

**GENEVA TOOL CO.** Hand Agricultural Tools, GENEVA, OHIO.

# BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.

New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY

Lake and Dearborn Sts., CHICAGO.

# "TABASCO" WATER HEATERS

All Steel, Self-Feed Shaking Grate

FOR

Small Residences, Green Houses, Flats, Hotels, Baptistries, Bath Houses, any place a supply of hot water is needed.

Send for Catalog.

KEWANEE BOILER COMPANY

KEWANEE, ILL.

CHICAGO STORE: 167-169 E. Lake St. CHICAGO.

# THE SCARCITY OF COAL

makes the householder's heating problem doubly hard to solve this season. We want to have you send to us and let us tell you how

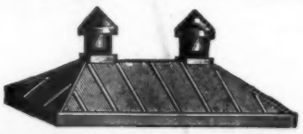
## The "Columbia"

OUR NEW PORTABLE BOILER

**Actually Will Save One-Quarter of Your Fuel Bill,** while giving you the most perfect comfort you have ever enjoyed. This boiler has been thoroughly tested and found to be perfect in every respect.

VANCE BOILER WORKS, Geneva, N. Y.

JOHN S. KANE, 91 DEARBORN STREET, CHICAGO.



# "THE ILLINOIS"

METALLIC SKYLIGHTS

Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free. We are prepared to furnish ribbed skylight glass at very reasonable prices.

J. H. JONES, Mfr.,

Lock Box 33. STREATOR, ILL.

# MAYER & COMPANY

# The Champion Hot Water Combination Heaters

They Fit Any Furnace

Base section when used without ring sections.

Ring Section

These Heaters are made in five sizes diameter, and from 100 to 700 square feet radiation capacity.

Will heat those cold rooms or an addition to the building. Will increase the capacity of any furnace. Are cheaper than coils and will do more work.

Write for new circular. Manufactured by

FRANK D. STOLZ

115 Lake Street CHICAGO, ILL.

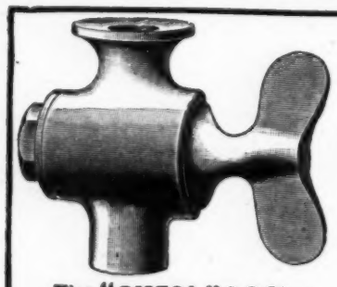
# "Eagle" Brand Copper Rivets and Burrs

STANDARD FOR QUALITY. (Lake Superior Copper.)

—MANUFACTURED BY—

THE PLUME & ATWOOD MFG. CO.,

29 Murray St., NEW YORK 196 Lake St., CHICAGO, ILL.



The "OMEGA," 2-3 Size. To attach to bottom of can.

BEER, MILK CAN, OIL CAN, CREAM SEPARATOR

# FAUCETS.

Various Sizes and Styles.

MANUFACTURED BY

CLARK NOVELTY CO.,

ROCHESTER, N. Y.

Also Mfrs. of The CLARK Kerosene Oil System for Heating Soldering Coppers.

**E. J. Schultz,** Kewanee, Ill., writes:

"I can say that my advertisement in The American Artisan convinces me that I cannot afford to be without your paper."

# SMITH'S

LITTLE GIANT
CIRCULAR GIANT
MALTESE GIANT

Can be used in any furnace and will heat your cold rooms.

THEY HAVE NO JOINTS

...Send for Catalogue...

CHARLES SMITH COMPANY

122 LAKE STREET, CHICAGO

# Moore's Stoves

WE wish our many friends in the trade the compliments of the season.

May their new year be a happy and prosperous one, and may their sales run far in excess of those of 1902 is the earnest wish of

THE

# Joliet Stove Works

JOLIET, ILL.

THE FULLER-WARREN CO.

MILWAUKEE, WIS.

Take this occasion to wish their many friends in the Retail Stove Trade a Happy and a Prosperous New Year.

WE extend to our friends in the trade our heartiest thanks for their generous patronage the past year. We wish them one and all a Happy and Prosperous New Year, and would call their attention to the fact that...

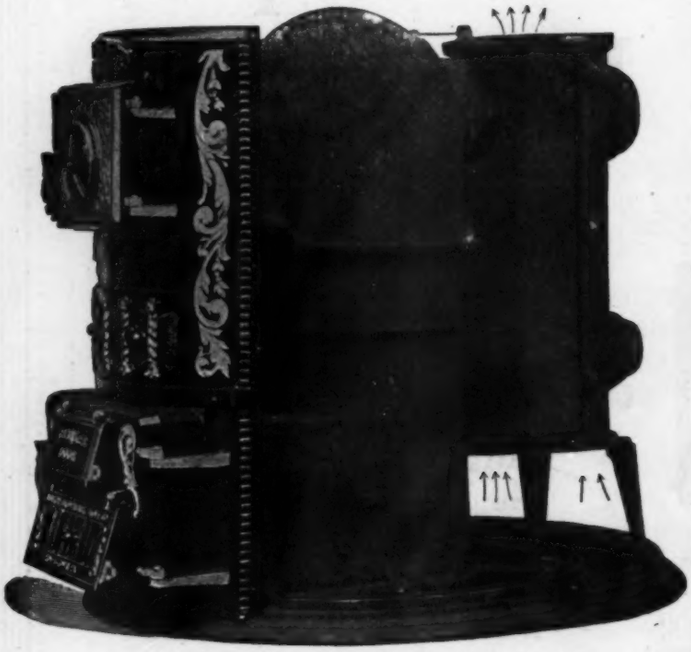
# Champion & Marquart Steel Ranges

Possess every feature of genuine merit known to modern steel range construction and have one feature found in no other range on the market in the shape of an additional flue, which is below the main heating flue, and conducts the air through the ash pit to the combustion chamber.

# Champion Steel Range Company.

CLEVELAND, OHIO.

# COMPLIMENTS OF THE SEASON



The Crown Low Down Warm Air Furnace.

## Assuredly

Mr. Dealer you are on the look-out for new and valuable information regarding the construction, installation and management of Warm Air Furnaces. If so our special furnace catalogue No. 54, will interest you. Why not write for one. For an easy selling furnace we would recommend the **Crown.** It burns hard or soft coal or coke, and is made in all sizes.

**The March-Brownback Stove Company,**

Makers of All Types of Warm Air Furnaces. **Pottstown, Pa.**

# COMPLIMENTS OF THE SEASON

# To The Trade We Extend

the **Compliments of the Season** and express our warmest appreciation of the very generous patronage they have accorded the Novelty Stoves, Ranges and Furnaces during 1902. Our sales for December, 1902, were triple those of a year ago and we shall leave no stone unturned during 1903 to supply the retail stove trade with the best selling goods on the market. We will strive even harder to meet an increased share of their patronage than ever before. Again wishing the entire stove trade a **most Happy and Prosperous New Year** with more sales during 1903 than ever before, we remain

# Abram Cox Stove Co.

**Philadelphia, Pa.** **Lansdale, Pa.**

# Charles A. Rusco,

MANAGER
CHICAGO
OFFICE

15-19 W. Lake St.
CHICAGO

# To the Trade:

WE wish to cordially thank the trade for their kind favors in years that have gone and to assure them of our deep appreciation of their generous patronage during 1902.

It is our constant endeavor to manufacture a thoroughly up-to-date line of goods, embodying the latest and best ideas in furnace, steam and hot water construction.

We will strive earnestly to be worthy of a continuance of your patronage during 1903.

Wishing you one and all the compliments of the season, we remain,

Very sincerely yours,

**The Boynton Furnace Co.,**

**147-149 Lake St., Chicago**
**207-209 Water St., New York**

# WE WISH OUR MANY FRIENDS IN THE TRADE

## THE COMPLIMENTS OF THE SEASON

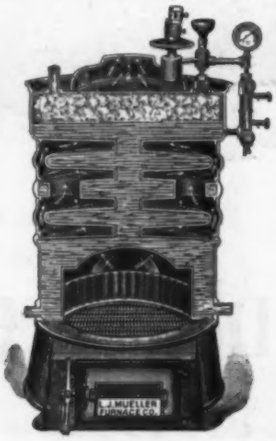
And would call their attention to the fact that

# WE MAKE ONLY

# Furnaces

and

# Boilers



## AND THESE WE MAKE

# RIGHT

## We Have Spent a Lifetime at this Business with Great Success

WRITE FOR CATALOGUE AND PRICES

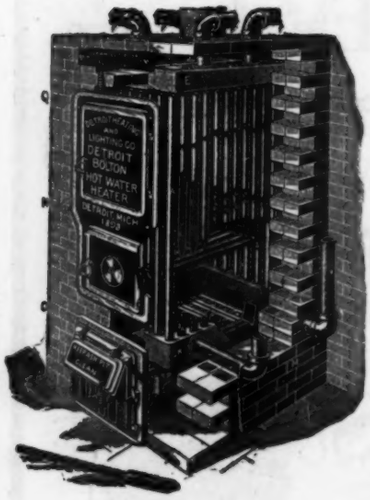
EVERYTHING IN THE HEATING LINE

ESTABLISHED 1857.

# L. J. Mueller Furnace Co.

191 REED ST. MILWAUKEE, WIS.

# All Broken Up!




**THE entire volume of water entering the base of the BOLTON HOT WATER HEATER is ALL BROKEN UP or separated into small one-inch water columns in its course upward, so that each will be brought in that direct contact with the fire that the heat can play all around it. This superiority of construction peculiar to this popular heater makes the Bolton Hot Water Heater a great fuel saver and an eminently satisfactory heater, giving an even temperature.**

WRITE FOR CATALOGUE

## Detroit Heating & Lighting Co.

DETROIT, MICHIGAN

THE INDUSTRIAL WONDER OF THE WORLD.

It is fitting that America's greatest industrial centre shou'd perpetuate the name of Wm. Pitt, the foremost champion of the infant industries of the 13 Colonies. Pittsburgh seems to have been named in the spirit of prophecy. The aggregate capitalization of the industries at Pittsburgh is more than $2,500,000,000. The production of Steel at Pittsburgh in 1901 equals half that of England; was more than that of Germany; twice that of France; five times that of Russia or Belgium, and twenty-five times that of Spain.

It is the most favorably located place on earth for the manufacture of those things which are made from Steel or Iron. We are the only people carrying on the manufacture of stoves in Pittsburgh. For this reason we are able to offer goods of equal grades for less money than our competitors.

WE GET ADVANTAGES, THEREFORE WE CAN GIVE THEM.

WESTERN AGENCY,
W. D. Sager,
38 to 40 Michigan Street,
CHICAGO.

**The Pittsburgh Stove & Range Co.**
PITTSBURGH, PA.

# Thanks, Gentlemen

For the orders you have been so kind as to give me the past year. I take this occasion to wish all Stovedom the compliments of the season and to express hope that every stove manufacturer may be fairly swamped with 1903 orders. With best wishes,

**HENRY GLEASON**

**Expert in Stove Architecture**

**258 Broadway, New York**

**Headquarters for Stove Trimmings**

JUST THE INDICATOR FOR

# STEEL RANGE DOORS

430 Indicator.

SOMETHING NEW
SEND FOR SAMPLE
AND PRICES.

**HELIOS-UPTON CO.**

PEABODY, MASS.

or HENRY GLEASON, Agent,

258 Broadway, NEW YORK.

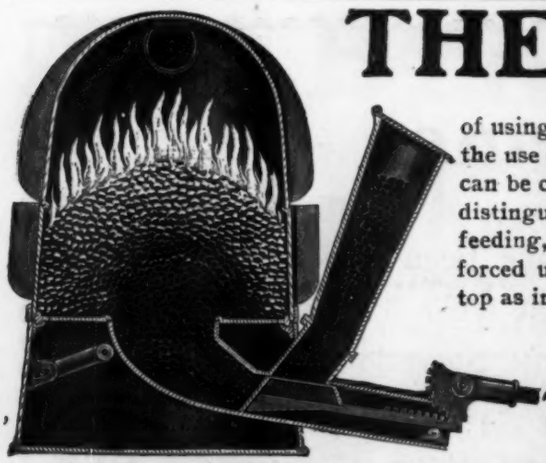
# BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogue.

MILWAUKEE, WIS.

JOHN PORTER, ALTOONA, PA., Writes: "I can't run my shop without THE AMERICAN ARTISAN."

# THE PROBLEM



of using soft coal in furnace heating is successfully solved by the use of the **Underfeed Furnace** which gives a fire that can be compared very favorably with that of hard coal. The distinguishing feature of the furnace lies in the fact that in feeding, the coal is placed in a hopper at the side and is then forced up **underneath** the fire, instead of being thrown on top as in other furnaces.

**Write for Circulars.**

**THE WESTERN FURNACE & FOUNDRY CO.,** 1218 Harney St., Omaha, Neb.

# EMPEROR FURNACES

**For Wood**

**SIMPLE SAFE DURABLE**

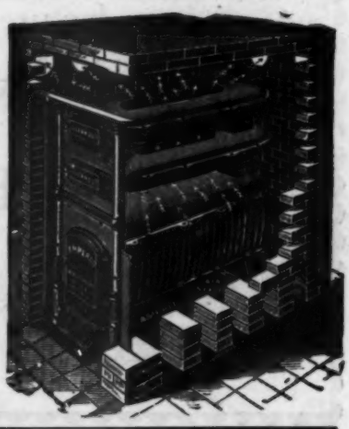
**The Best and Cheapest Line of Wood Furnaces**

**FURNISHED FOR EITHER BRICK OR GALVANIZED IRON CASING.**

**Send for Catalogue.**

Bergstrom Bros. Co.

**NEENAH, WIS.**



# There's Only One

steel range a dealer can handle on which he can make an argument both as regards PRICE and QUALITY that is the

## WILLARD STEEL RANGE

This range sells on its merits at a price that places it within the reach of all.

**Wm. G. Willard, Mfr.**

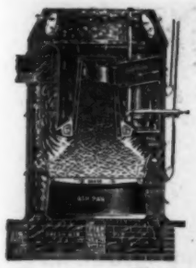
**619-621 N. Fourth St., ST. LOUIS, MO.**

# DO YOU

See the arrows in the cuts? They point out an unusually long course of fire-travel, do they not? That's where the noted fuel economy of the **FLORAL CITY** furnaces come in. They produce greater heat than other makes and they do not allow it to escape up chimney after it is made.

**Monroe Foundry & Furnace Co.,**

**MONROE, MICH.**



# Bust the Coal Trust

Why pay from $8 to $10 per ton for Hard Coal to heat your Homes?

## The Bryce Self-Feeding Furnace

Will give **better** results with less trouble on coal costing from $2 to $3 per ton.

Write for Catalogue to

**THE BRYCE HEATING AND VENTILATING CO., TOLEDO, OHIO.**

Weir Gas and Soot Consuming Furnace.

# Weir ALL STEEL GAS AND SOOT CONSUMING Furnace

**The Heaviest Steel Furnace Made.**

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

## "The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

MANUFACTURED BY

## Meyer Furnace Co.

SEND FOR CATALOGUE. PEORIA, ILL.

Is Absolutely Safe

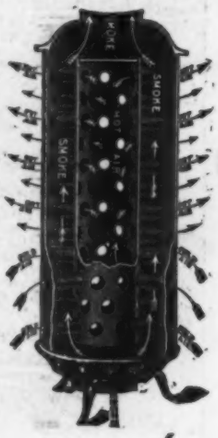
Handy Pipe.

I can hold my hand over my chimney. No waste heat. I use a Rochester Radiator and save half the fuel.

The greatest leak in household economy is the loss of heat up the chimney. This was supposed to be unavoidable until the **Rochester Radiator** was invented; now it is cheaply and thoroughly controlled by the many cross tubes. Dealers find an ever growing trade. Why not put in a stock and get up a boom in your town?

# Rochester Radiator Co.

**100 Furnace Street, ROCHESTER, N. Y.**




4.866 sq. ins.

# O-RIB-O WARE.

**O-RIB-O Galvanized Pail.**

**O-RIB-O KING.**

**O-RIB-O Galvanized Tub.**

**THE PRESENT SENSATION IN THE METAL WARE TRADE.**

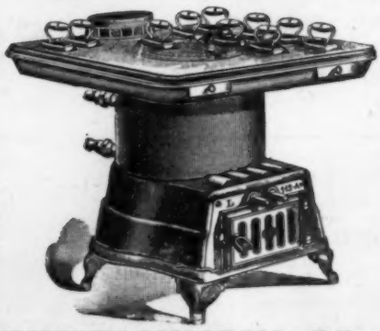
Write direct to manufacturers. Patented and made solely by

**BRISCOE MFG. CO., (THE O-RIB-O PEOPLE) DETROIT, MICH.**

# NO LAUNDRY

should be without that best of all laundry stoves

# THE RICHMOND



It is the most durable laundry stove made and invariably gives satisfaction.

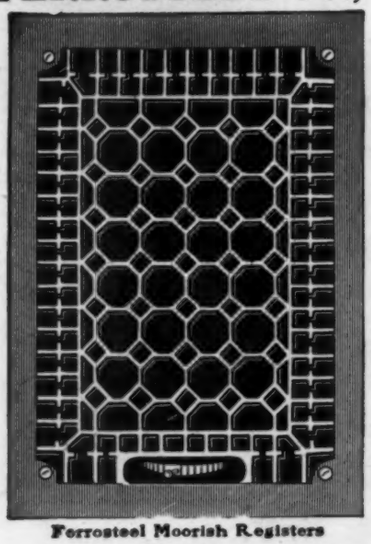
It is highly recommended wherever used, and is the best seller in its particular field.

Send for our 1903 CATALOGUE and PRICES ALSO.

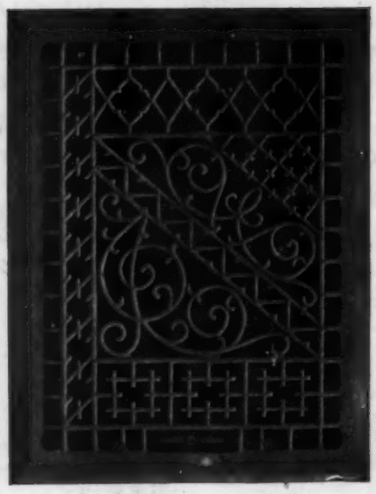
**THE RICHMOND CO., Norwich, Conn.**

New York, 738 Park Row Bldg. Philadelphia 18-24 So. 7th Street. Pittsburg 210 Ferguson Bldg.
Chicago Chicago Heater & Supply Co. St. Louis Rumsey & Sikemeier.

# FERROSTEEL CO., CLEVELAND, OHIO



Ferrosteel Moorish Registers



Ferrosteel New Convex

STANDARDS OF COMPARISON

All Sizes and Finishes. Immediate Shipment. Easiest Terms. Lowest Prices.

FERROSTEEL CO., CLEVELAND, OHIO

## The Aeolipyle

Will maintain an even temperature throughout the house day and night.

## The Aeolipyle

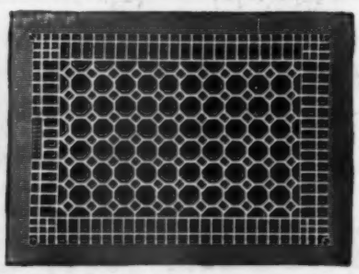
Requires 25 per cent. less coal and produces better combustion of the gasses, hence more heat.

## The Aeolipyle

will pay for itself within three months at present price of coal.

# THE ÆOLIPYLE CO.,

237 WATER ST., NEW YORK.



WE MAKE RIGHT PRICES AND PROMPT SHIPMENTS

All Sizes—All Styles of Finish

Quality and Finish Unexcelled

# HENRY & SCHEIBLE CO.

6-8-10 Long Street
CLEVELAND, O.

BURTON'S

# Fuel Economizer

Attached to a stove pipe saves more fuel and radiates more heat than any other stove pipe attachment.

AN EASY SELLER.

Assertions Backed by Guarantee.

W. J. BURTON & CO.,
DETROIT, MICH.

COMMON SENSE

# Circulator and Radiator

This heater is so simple in construction that any person who has any knowledge of the principles of heating can readily see the natural advantages it has over others. It does not obstruct the draft. It is easily cleaned out or repaired when necessary. It produces a circulation unequaled by any other article of the kind.

It sells itself to all who understand that the true principle of heating is by circulation and not by radiation It takes the place of a joint of pipe. The 6-in. is 10½-in. in diameter and the 7-in is 12¾-in. It has no equal as a practical fuel-saving device and the price so small that no person can afford to use a stove or furnace without one.

Send for particulars.

A. C. SELLECK,
755-757 W. Madison St., CHICAGO, ILL.

J. T. Walbert & Son, Paducah, Ky., write: "Our advertisement in your paper proved effectual."

# PRACTICAL

is the right adjective for describing

# THE MANUAL OF BUSINESS

The following testimonials show how it is regarded by practical business men and leading technical editors:

### SHOULD BE A VALUABLE WORK OF REFERENCE.

The Railway and Engineering Review, New York, says: "THE AMERICAN ARTISAN AND HARDWARE RECORD, 69 Dearborn St., Chicago, has recently published a book of 260 pages entitled "The Manual of Business." The work is intended as a reference book for retail merchants. It contains instruction on commercial correspondence, bookkeeping, debts and collection, banking, commercial papers, contracts, notes, patents, measurements and kindred subjects and should be a valuable reference."

### A VALUABLE GUIDE.

The Architects and Builders' Magazine, New York City, for November, 1902, says: "'The Manual of Business' is intended as a guide and reference as to business rules, forms and customs. The chapter on commercial correspondence which starts the work has been carefully compiled and will be found convenient for reference to young men entering commercial life, as well as of value to older heads, and may, perhaps, suggest improvements in the methods obtaining in established houses.

"The forms of commercial papers, contracts, notes, drafts, etc., are of value, as showing what are accepted and usual in such matters. In bookkeeping and other business methods various questions, such as to the legal requirements as to books that can be used in evidence, and legal technicalities are discussed and explained. Besides these, a large amount of information relating to the management of business is brought together and carefully arranged for ready reference. The effort is to make the book not only a collection of forms for commercial papers, but a sort of business compendium that can be turned to whenever occasion requires. A very complete index closes the book.

"The book will be found convenient in any business office, as well as being a valuable guide to the young man entering upon a business career."

### SEES NOTHING TO CRITICISE.

M. L. Corey, Argos, Ind., Secretary of the National Retail Hardware Dealers' Association, writes:

"A few days since I received a copy of 'The Manual of Business' and have carefully gone over same with pleasure and profit to myself. The book is certainly up to date and contains many new and valuable features that should make it sought for by all business men. I thank you very much for this copy, but really do not see anything to criticise about it. I hope it may find its way into the hands of every one of our members."

### WILL SAVE BUSINESS MEN TIME AND MONEY.

H. J. Hall, Lincoln, Nebraska, writes:

"Your Manual of Business received and after carefully looking through the contents we feel that it will save a business man a great deal of time and money in giving information which will enable him to decide questions that are not familiar, and about which he would ordinarily be in doubt. We thank you for calling our attention to this work."

### HELP FOR YOUNG MERCHANTS.

The Chicago Evening Post of Sept. 27th says:

"A handy book which the retail merchant should find especially convenient and valuable is 'The Manual of Business,' compiled by Sidney P. Johnston. It is a collection of business forms for executing commercial instruments, of commercial data and conservative advice on the many questions of correct method arising in daily business life. Penmanship and correspondence, bookkeeping, debts and collections, banking, commercial paper, contracts, patents, measurements, transportation, postal regulations, discount and interest, property, real and personal, and rights of parents are some of the subjects dealt with, and there is added a dictionary of business terms. It is published by Daniel Stern, Chicago."

### EVERYTHING YOU NEED TO KNOW ABOUT BUSINESS.

Popular Mechanics, Chicago, of Oct. 18th says:

"Everything you need know about business, that business references can tell, is given in a recent manuel issued by THE AMERICAN ARTISAN. It is entitled 'The Manuel of Business,' and is intended as a reference book for retail merchants. There is probably no person in any walk of life, however, that would not find much information of value to him in this handy volume. The manuel is compiled by Sidney P. Johnston and Daniel Stern, 69 Dearborn street, Chicago, is publisher."

### OUGHT TO HAVE A WIDE CIRCULATION.

The Age of Steel of Oct. 4th says:

"'The Manual of Business' is a new book which ought to have a wide circulation among retail merchants generally. It is, in short, a collection of correct business forms for executing all commercial instruments, commercial data, and advice on the thousand and one questions of correct methods that are constantly arising in every day business life. Compiled from various sources by Sidney P. Johnston, Daniel Stern, publisher, 69 Dearborn street, Chicago. The compiler has done his work well, and the work will undoubtedly prove invaluable to thousands of young business men, especially in acquainting them with the forms in use in commercial life. The book is substantially bound and neatly printed, and is also provided with a complete alphabetical index, making reference easy for the user. The closing pages of this valuable manual are occupied with a collection of business maxims, why business men fail and general maxims of conduct and life—a fitting close to an interesting book."

### A VALUABLE AND INSTRUCTIVE BOOK.

The Casket, Rochester, N. Y., says:

"A valuable and instructive book, entitled 'The Manual of Business,' has been issued by Daniel Stern of THE AMERICAN ARTISAN, Chicago. It is a collection of correct business forms for executing all commercial instruments, including data and advice on questions that are constantly arising in business life."

### A CORRECTOR OF SUPERFICIAL KNOWLEDGE.

The American Contractor in its Oct. 4 issue says:

"'The Manual of Business' is the name of a book of 263 pages which will prove a ready reference work in regard to many forms of business ways and correspondence. It is particularly valuable in correcting superficial knowledge upon hundreds of everyday requirements in the way of drawing notes, bonds, endorsements, postage values, trade marks, weights and measures, business terms, corporations, etc. It gives correct business forms for executing all sorts of commercial instruments, commercial data and advice on the thousand and one questions of correct methods that are constantly arising in everyday business life. Daniel Stern, publisher, 69 Dearborn street, Chicago."

### WILL BE INDISPENSABLE TO EVERY BUSINESS MAN.

The Indicator, Chicago, says in its issue of Sept. 27th:

"'The Manual of Business' is the title or a valuable work for retail and wholesale merchants and manufacturers and is compiled from reliable sources by Sidney P. Johnston and published by Daniel Stern, 69 Dearborn street, Chicago. The work is a collection of correct business forms for executing all commercial instruments, commercial and legal data and advice on the thousand and one questions that are constantly arising in everyday business life. It is an attractively prepared work and will be indispensable to every business man. The price is not given in the work, but it is undoubtedly of little importance compared with the value of the work to the average merchant and manufacturer."

### CONTAINS A VAST AMOUNT OF MATTER.

The Canadian Manufacturer of Oct. 5 says:

"The Manual of Business just issued by Daniel Stern of Chicago, is a valuable publication of its kind, containing in its some 250 pages a vast amount of matter for the business man."

### A COLLECTION OF CORRECT BUSINESS FORMS.

The Reform Advocate, Chicago, of Oct. 11 writes:

"The Manual of Business" is a collection of correct business forms for executing all commercial instruments; commercial data and advice on the thousand and one questions of correct methods that are constantly arising in every day business life, written by Sidney P. Johnston and published by Daniel Stern, 69 Dearborn street, Chicago."

### WILL PROVE INVALUABLE.

The Operative Miller, Chicago, says in its November issue:

"The Manual of Business is a 260-page cloth-covered book issued by Daniel Stern, of 69 Dearborn street, Chicago. The book is handsomely bound. It will prove invaluable to the young business man, acquainting him with the forms in vogue in commercial life and increasing his commercial worth as he masters its points."

**THE PRICE IS $3.50 A COPY.** FOR SALE BY BOOKSELLERS EVERYWHERE, OR

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ROUND OAK
STANDARD OF AMERICA
Mr. Lee, Mr. Gardner, the Traveling Salesmen, the Clerks, in fact the entire Round Oak force cordially wish all their customers & friends a Merry Christmas & a Happy New Year.
Fred E. Lee, General Manager.
A. B. Gardner, Asst. Manager.
J. O. Becraft, Cashier.
O. G. Beach, Sales Manager.
A. K. Beckwith, Supt.
Estate of P. D. Beckwith, Dowagiac, Mich.
Makers of Good Goods Only
FRANK B. SWICK
ROGERS & WELLS - CHI.

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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69 DEARBORN STREET, CHICAGO, ILL.

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CHICAGO, DECEMBER 27, 1902.

A HAPPY AND A PROSPEROUS NEW YEAR.

COMPLETE electric cook stoves are being placed in several new apartment houses. Each division of the stove has a separate heater which may be used without the others simply by turning a small switch. At the present price of electric current the cost of cooking by electricity is a little more than by gas or coal, but when the new system comes into more general use the price is expected to be reduced. The time will come when farmers will light their house, yard and barns and do their cooking by electricity generated by wind mills and stored in storage batteries.

WHEN Hamlet inveighed against the law's delays he was not complaining about any condition of affairs which was peculiar to Denmark. The dilatoriness of legal proceedings is strikingly shown by a case recently decided in the Supreme Court of New York City. Wm. Green, a 13-year-old boy, brought suit against the Metropolitan Street Railroad in 1897, for loss of a leg, suing for $50,000. On the first trial the railroad received a verdict; in trial No. 2 the judge dismissed the complaint; the jury disagreed in trial No. 3; the boy received a verdict for $10,000 in trial No. 4; the fifth trial the jury were unable to agree, and on Dec. 20th the boy was awarded $10,000 damages and the company's lawyers once more took an appeal.

THE Manufacturers' Record, a Baltimore, Md., publication, in a recent article in the outlook for 1903, states that "Manufacturers of locomotives and of other railroad supplies point to the fact that the transportation facilities of the country are taxed to their utmost limit as indicative of widespread prosperity among producers, and to the disbursements which are being made and must continue to be made by railroads to meet increasing business as the full promise for a maintenance of present activity for at least a year longer. There is also an unusual amount of new equipment reported from many manufacturing lines, including cotton mills, lumber mills and machine shops, while the scarcity of iron and steel and the high prices of other material are fair indexes to conditions of prosperity on the farms and in the factories of the land."

MANUFACTURES now form one-third of the exports from the United States, a larger proportion than in any preceding year. The figures of the Bureau of Statistics for the ten months of the year for which data are now complete show that manufactures formed during that period 32.61 per cent of the total exports of the country, while the highest percentage in any preceding fiscal year was that of 1900, in which the exports of manufactures formed 31.65 per cent of the total exports. In no other fiscal year have manufactures formed as much as 30 per cent of the total exports. The figures of the ten months now available indicate that the total exports of manufactures during the calendar year 1902 will reach about $415,000,000, or more than in any preceding fiscal year, save in the exceptional year 1900, when the total was $433,000,000.

**The Taff Vale Decision.**

ON Dec. 19 a suit of vast importance to the industrial world was decided in England when the Taff Vale Railway Co. received damages of $135,000 on account of alleged conspiracy of the Amalgamated Society of Railway Servants for bringing about a strike on the road in August, 1900.

Sir Alfred Wills, the justice who summed up the case in the king's bench division of the High Court of Justice, added that it was time for a man occupying the position he did to have the courage to express his opinions in reference to these perpetual attempts to shuffle out of responsibility. The evidence, the justice said, was absolutely overwhelming that the action of the Amalgamated Society of Railway Servants was what the law called unlawful conspiracy to molest and injure the plaintiffs in their business by unlawful means. Justice Wills, in summing up, criticized the subtle intricacies of the defendant's case as the perpetual shuffling of cards and the continual production, after the manner of an experienced conjuror, of the card of non-responsibility, which was contrary to common law, common sense and everything else.

Judicial arbitraments of industrial disputes in this country have as a rule been along the line of the interference by union labor and its sympathizers with property rights or the personal liberty of non-union workmen.

This English decision, however, is sweepingly radical and virtually crushes all strikes by legal enactment. It is an imperative call to labor to stack arms and is viewed with great uneasiness by union men everywhere. Its equity is, to say the least, dubious. Take a parallel case in this country, and the Baers and the Markles might mulct their employes several millions for "damages" caused by their recent strike for living wages. It is very doubtful if any American judge would make such a decision as this English jurist. If he did popular sentiment would be over-

whelmingly against him. Property rights are to be respected, but the rights of man are paramount to those of vested interests. Strikes are to be deplored, but until our legislators establish compulsory arbitration tribunals they are the only weapons labor has to enforce its demands. Make a union liable for damages caused by a strike and you virtually make the workman a chattel of his employer. Commodus, one of the bestial creatures that occupied the throne of imperial Rome, once descended into the gladiatorial arena, panoplied in full armor, and butchered a wretched serf armed with a leaden spear, the degenerate mob frantically cheering this infamous deed.

We know nothing of Justice Wills. He may be an able jurist and he may be an addlepated idiot. He may be correct in his technical interpretation of English statutes, but a sense of fair play must condemn his thrusting the English laborer into the industrial arena practically defenseless to do battle with the completely armed forces of capital. Granted strikes are a serious industrial menace and that great interests should not be wantonly jeopardized, and granted that neither capital nor labor is always in the right, still a sense of equity, a desire for fair play inherent in the Anglo-Saxon race—Wills and his ilk to the contrary notwithstanding—would clearly indicate that the state should exercise its sovereign power and place both capital and labor on a plane of absolute equality, meting to each their strict rights without fear or favor. After this is done a Taff Vale decision in Illinois or Ohio would have a different meaning than it would have to-day.

## RANDOM SKETCHES.

BY SIDNEY ARNOLD.

L. A. BONNET, who is associated with Bonnet & Nance, the well known Chicago Heights, Ill., firm of stove manufacturers, is, as his friends well know, a man of an inventive turn of mind, and he believes that there is a possibility for a new machine, which when once it gets in operation, will festoon Mergenthaler linotype with a beautiful array of cobwebs. Mr. Bonnet's revolutionary idea is one which will enable people to set type with an ordinary typewriter. His scheme is further outlined as follows:

The type of the typewriter striking against the clay paper would leave its impression. After the writing was completed, the sheet of "clay paper" should be removed from the typewriter, and placed in a drying oven, to free it from all moisture. The paper is then ready to receive the melted lead for the electro; the method of taking off the lead impression being the same as now commonly used in printing establishments. The idea is to do away with the expensive and present ponderous style typesetting machine, which takes up considerable valuable space, especially in large cities. There would be no need of type and leads, with the consequent saving in the cost of same. Any stenographer ought to be able to do the work of a printer without first serving his apprenticeship. Furthermore, the clay sheets could be stored away for future use without taking up nearly the space of ordinary lead electros. Of course, the present style typewriter would require some modifications to conform with the requirements necessary. Also some device should be provided for uniform indentations, so that the electro would present a perfectly smooth type surface and insure each letter printing distinctly on paper.

If, as has been frequently stated, the press is the bulwark of liberty, all the enterprising editor of the future will need to do is to go to some convenient clay bank, dig a hod of clay, rent one of the Bonnet typewriters and secure credit with the paper house. He can then 'typewrite' his own editorials, roasts of the rubber trusts, etc., directly into type, and the cost of getting out a paper will be reduced to the minimum.

* * *

FROM the Pittsburgh Leader of Dec. 17 I learn that "Shortly after midnight on Dec. 16 the cellar door of the hardware store of Wolff, Lane & Co., 304 Wood street, was open." This very simple fact gave rise to an alarming rumor about a visit by burglars, but there was nothing in it.

* * *

UP TO DATE, I have nothing but the most fulsome praise for the way the hardware men visiting New Orleans were treated by the people there. I have heard not a whisper or a knock until I happened to take up the Canadian Hardware and Metal of recent date, where I found the following item:

"T. B. Lee and J. Hardy, president and secretary respectively of the Canadian Wholesale Hardware Association, have returned from New Orleans where they attended the convention of the National Hardware Association as representatives of the Canadian organization. They had a thoroughly enjoyable time, although, with the temperature at 75 and the humidity at 84, they experienced what it was to be bitten by Louisiana mosquitoes, which do not sing, as do the Canadian description, before they bore into the bodies of their victims."

It would appear from this item that the New Orleans ladies and gentlemen who are so active in entertaining visitors should take measures for capturing all the delta mosquitoes in sight and equipping them with a choice lot of bazoos, xylophones, accordions, cornets, saxaphones and other musical instruments, in order that they may buzz out with customary warnings for visitors from regions where the *Anopheles* carries his pianoforte along in his grip sack.

* * *

A GERMAN association has been actively experimenting in regard to the heating of street cars by briquettes. The proposed arrangement consists of pipes to be placed in the sides into which the briquettes are placed. During the winter the daily consumption for sixteen hours for a car with a seating capacity of from eighteen to twenty-two persons with eleven briquettes each, weighing 4 2-5 pounds each is between 10 and 11 cents.

* * *

A FRIEND of mine recently paid a business visit to Battle Creek, Mich., and was greatly edified by the extensive factories where grape nuts, malta vita and other health foods are turned out by the carload. Battle

Creek chemists work day and night in order to evolve new articles that people will consent to eat. One firm brings out caramel coffee, and a rival counters on them with the production of postum cereal. Even the labors of stove pattern men in evolving new ornamentation for stoves for succeeding years is dwarfed by the strain on the food manufacturers, who feel that with each season they must concoct some new article that will satiate the acquired tastes for new foods that they have so industriously cultivated in the past. In this connection the merits of Fred E. Colville, the botanist of the Department of Agriculture, should not be passed by. He has discovered a new breakfast food which, with the most extreme modesty, he says is more palatable and more nutritious than many of the patent foods now in common use. This is indeed the height of diffidence, for to the Philistine mind it would be a very dull man indeed who could not evolve a semi-digestible compound that could not stack up at least at the middle of a heap of prepared foods. This new food consists of the prepared seeds of the wocas, a yellow water lily growing in southern Oregon. The seed hulls are removed and the grain is roasted. It is said that this new food tastes like the hodge-podge of popcorn and hickory nuts.

* * * *

JOHN F. HULSEMAN, for twelve years on the road as the representative of a wholesale hardware house, has resigned his position, and on Jan. 1st will open a retail hardware store at Chamberlain, S. D. Mr. Hulseman is giving up a position with a good salary, and in speaking to a friend recently said: "Perhaps I will not do as well off the road, but my children are growing up, and being at home with my family will even things up anyway."

* * *

THESE are the days when good window displays are widely essential to the sale of hardware, and enterprising hardware dealers are generally doing their best to be foremost in this line. The Menominee Hardware Co. of Menominee, Mich., have devoted one of their store windows to the comprehensive display of sporting goods for the holiday season, and have displayed all sorts of in-door games, parlor billiard tables, and bellished their windows with a very attractive line of skates, hockey skates and skis, which latter are becoming very popular, and are rapidly taking the place of snow shoes with the young people. Their cutlery display is very attractive, a very large variety of knives being shown. Their windows also contain improved lamps, and a large line of stag and ebony handle chafing dishes. Firms who show enterprise like this should make money, as they emphasize the fact that the old-fashioned hardware store, with its line of saws, hammers, nails, hatchets, axes, plows and other staples, which could be found in the hardware store of our grand-daddies is hardly suited to the commercial requirements of this strenuous age.

* * *

A MATTOON (Ill.) grocer has an idea that has made a hit with his constituents and might well be adopted by the hardware fraternity in some towns. There seems to be a lamentable dearth of hitching posts in Mattoon and the farmers dislike doing business with the small boy, the only substitute, whose hand is always out for a tip. Now the rural customer comes to town, goes to the Palace Grocery and gets a check which he presents at one of the local livery barns, and he then has his horse taken care of without charge for unhitching, watering and sheltering. A low charge is made where animals are fed. Mr. Harris makes announcements of his enterprise in a neat circular.

* * *

DOES a tall man make a better hardware clerk than a short one? In my peregrinations through retail hardware stores in various sections of this country I have found hardware clerks all the way from 4½ to 6½ feet high. In the thousands of want advertisements that have appeared in THE AMERICAN ARTISAN under the heads of "Help Wanted" and "Situations Wanted," I do not recall a single one where the advertiser for help stipulated that the applicant must be "tall," although they have been called on to have a variety of musical accomplishments. Nor, on the other hand, do I recall any applicant for a situation who gave his height in his advertisement. It's evidently different in England, as the following want advertisements, taken from the Hardware Trade Journal, London, Eng., of Nov. 28, would seem to prove:

"ASSISTANT (29,) *tall*, 14 years' first-class experience, General, Furnishing, Builders', Tools, Engineers' Fittings, etc. Good window dresser salesman and stockkeeper. Highest references. Iron, 3, Cambray Villas, Seymour Road, Gloucester."

"ADVERTISER—with up-to-date business training and good experience—would like to correspond with a first-class firm (manufacturing preferred) who require representation; *tall (six feet)*, energetic, good address, young; highest references. Apply No. 351, Office of the "H. T. J.," 8 Finsbury Square, E. C."

"ASSISTANT, *tall*, 26; 10 years' experience Builders, Furnishing, Cycles, Sports, etc. Good salesman. L, 36 Rutland Road, Hove, Sussex."

"ADVERTISER — Warehouseman, age 28, *tall;* married: four years' experience in Builders' Heavy Castings and Rain Water goods, Drain Pipes and stockkeeper, etc. Excellent references.—G. H., 70 Liverpool St., Walworth."

"ASSISTANT (23), *6 ft.*, requires permanency; General Furnishing, Builders' Cutlery, Tools, etc. Excellent references. North preferred. P. Lynn, Page Hall, Penrith."

"ASSISTANT (25); *height 5ft. 9½in.*; seven years' London and country experience; Furnishing, Tools, E. P., Gas Fittings, etc.; disengaged. Dunstone, Trediunick, Torquay, Cornwall."

"IMPROVER; 3 years' experience, General Furnishing, Builders', knowledge of window dressing; *5ft. 10in.*; smart appearance; good address and reference; indoors more for experience than salary; disengaged. E. Y., 23 Wyndham Terrace, Salisbury."

"ASSISTANT or Traveller; 11 years' sound experience, General, Furnishing, Builders' Black, and Shipping Ironmongery; age 28; *tall*. "Metal," 3 James Street, Cardiff."

"IRONMONGERY—Wanted, a first-class man about 35, for the Hartlepool district, used to the builders' hardware trade, engineers' and colliery stores; good manager, buyer, salesman, correspondent. Address, with full experience, *height*, salary, etc., to No. 405, Office of the "H.T.J.," 8 Finsbury Square, E. C."

Why should these young Britons desiring employment state their height. Is a six-footer better than a five-footer? Does a man who is 5 feet 9½ inches high or 5 feet 10 inches high possess mercantile qualities that are beyond the grasp of the man who is only 5 feet 6 inches high? Is there a possibility that the store ladder trolley has not invaded darker England and consequently the clerk's reach cuts a figure? This question is too deep for my elucidation and I would be glad to have this British preference for tall clerks explained.

# News Siftings.

Kerosene is higher again.

It is said that the zinc combine has fallen through.

The Carbon Stove & Range Works, Weisport, Pa., are contemplating moving their plant to Norfolk, Va.

The American Asbestos Co. are installing a plant for mining asbestos and mica at Bedford City, Va.

The Louisville Stove Manufacturers' Association held a meeting recently and advanced prices 5 per cent.

The Toledo Stove Co., Toledo, O., are contemplating erecting another plant practically a duplicate of the one they now have at Delphos, O.

Geo. A. Baird, general sales agent of the Republic Iron & Steel Co., on Dec. 22 emphatically denied the report that the United States Steel Corporation had absorbed the Republic Iron & Steel Co.

The D. M. Steward Mfg. Co., Chattanooga, Tenn., are sending a pretty card to their trade showing a picture of Santa Claus with a bag full of toys and wishing them a Merry Christmas and a Happy New Year.

The sale of hard coal base burners is more or less affected by the scarcity of coal. The Fremont (Ohio) Journal of Dec. 8 tells of a dealer in that city who has four customers who have ordered him to deliver a hard coal stove when he can at the same time deliver a ton of hard coal.

The St. Louis Court of Appeals on Dec. 23 defined the rights of capital and labor as follows: "A capitalist has the right to employ his capital or hide it away and refuse to use it, so long as he does not become a public charge, and a man without capital may labor or refuse to labor so long as he keeps out of the poorhouse."

The Buckwalter Stove Co., Royersford, Pa., send us a handsome calendar for 1903. This shows a beautiful girl clad in red and adorned with red roses, while as a background to her striking beauty is a large fan. The trade can secure one of these pretty calendars by writing this firm, kindly adding: "Saw it in THE AMERICAN ARTISAN."

The stockholders of the Queen City Range Co., Belleville, Ill., held a meeting on Dec. 10 and decided to increase their capital stock from $10,000 to $20,000. They also decided to increase their number of directors from four to five. This firm are to move their plant from East St. Louis, Ill., to Belleville, Ill. Ground has already been broken in the latter city and they expect to have it in running order by Feb. 1, 1903.

The Gobeille Pattern Co., Cleveland, O., are sending out a forceful card to the trade. After wishing the recipient "A Merry Christmas," this card goes on to say: "Do you realize that 1902 has been a good year? Since last June one concern has paid us an average monthly account of $1,227.68. Some say, 'If they have so much pattern work all the time, why don't they make it at home?' Well, the question is its own answer. Their pattern account is so large and their demands so strenuous that they can't afford to fool with a toy pattern shop—too expensive and too slow."

The trade will learn with deep regret of the sudden death of Albert E. Swift of Buffalo, N. Y., which took place Dec. 18th, from heart disease. He leaves a widow. Mr. Swift was for many years in the wholesale stove business in Buffalo, being a member of the firm of Swift & Stambach, Buffalo agents for a Detroit stove firm. Later on he was proprietor of the "Johnstown Flood," one of the best paying attractions on the Midway at the Pan-American Exposition. Mr. Swift had a rare geniality and made many friends who will grieve at his sudden taking off.

While leaning from the window of his room on the twelfth floor of the Great Northern Hotel, Chicago, to get a get a breath of fresh air while he was suffering from a headache Dec. 22, Harrison S. Potter, traveling salesman for the Sun Vapor Stove Co., Detroit, lost his balance, fell to the sidewalk and was killed. An unfinished letter to his mother, in St. Joseph, Mo., was found in Potter's room. After stating that he had arrived in Chicago and was well, with the exception of a headache, he said: "I guess I will have to lay off writing for a minute or so and get a breath of fresh air."

The Ringen Stove Co. Division of the American Stove Co., located at St. Louis, Mo., advise us that the "Quick Meal" gasolene, oil and gas stoves and steel ranges will be sold in 1903 by E. L. McBride in Nebraska and the Dakotas and part of Minnesota, and by L. A. Buck in Wisconsin and part of Minnesota, whereas Wm. S. Ley will visit his friends in Indiana, Ohio, southern Michigan, Kentucky and other Southern states. Geo. H. Bainum will take in the states of Kansas and Oklahoma and part of Missouri and the Indian Territory, and A. X. Smith will continue traveling over Iowa, except the southern part, which Geo. C. Robinson will visit, also covering Arkansas and Texas. H. P. Gingrich will visit the trade in Illinois, T. S. Alford will spend his time looking after the "Quick Meal" goods in northern Mexico, Colorado, Wyoming and Montana, while Jno. A. Preston will work the sunny South in Florida, Bert M. Denison will make his usual rounds on the Pacific coast and Ed. Telhorst will see friends of the "Quick Meal" stoves in those parts of Missouri not visited by Geo. H. Bainum.

## EXPECT TO MAKE EXTENSIVE IMPROVEMENTS.

H. T. Frohman, general manager of the S. Obermayer Company, Cincinnati, Ohio, in a recent interview on the business outlook in a southern paper, says: "The year just closing has been the largest business for us in the history of our business since we organized in 1874. Our business has been double the last year over the previous year, and more than treble of the year before. This heavy increase can be attributed to the general demand for goods in our line, and, furthermore, to the improvements and facilities that we have made for the serving of foundrymen in much quicker and better time, at the same time with improved quality of our goods, so that they are the standard in this line. Our goods are not only recog-

nized in this country, but our export business during the past year has been very heavy; in fact, more than any two previous years. We look for a continued prosperity in the iron and steel industry not only at home, but also for a largely increased foreign business during the coming year. You must understand when the iron and steel industries are busy we are busy, and from the general outlook we think that these prosperous times will continue for many months to come. Within the next few months we expect to make large improvements at our various plants. We feel confident in stating that the general condition of good trade in the iron industry will continue much longer than all of us anticipate. The demand for goods in this commodity will keep up the prices."

## $2,500,000,000.

This is a large sum—well, rather. It represents the aggregate capitalization of the industries of Pittsburg, Pa., concerning which city the Pittsburg Stove & Range Co. say: "The production of steel at Pittsburg in 1901 equals half that of England; was more than that of Germany, twice that of France, five times that of Russia or Belgium, and twenty-five times that of Spain. It is the most favorably located place on earth for the manufacture of those things which are made from steel or iron. We are the only people carrying on the manufacture of stoves in Pittsburg. For this reason we are able to offer goods of equal grades for less money than our competitors. We get advantages, therefore we can give them."

## A HANDSOME PRESENTATION.

On Dec. 24 last, while Chas. A. Rusco, manager of the Chicago office of the Abram Cox Stove Co., 15-19 West Lake street, Chicago, was hard at work superintending the filling of the surprisingly large volume of December orders for Novelty stoves, ranges and furnaces, which, by the way, are three times as much as for the corresponding month last year, and was perfecting the details for an aggressive business campaign during 1903 that would result in an even larger volume of sales than enjoyed the past year, he was mysteriously summoned to a meeting of the salesmen of the Chicago office of this firm and his numerous staff of office employes, and before he had time to inquire into the *raison d'etre* of the meeting W. W. Barrick, one of the city salesmen of this company, was in the midst of a magnificent presentation speech, in which, on behalf of the traveling salesmen and office employes of this firm, Mr. Rusco and his wife were presented with a handsome token, consisting of a silver tray two feet in diameter, scalloped handsomely around the edge and provided with a mirror on top fastened with a three-quarters bevel, this mirror also being scalloped. On this mirror was a very elegant cut glass pitcher and six cut glass goblets. This exquisite gift was accompanied by a card wishing Mr. and Mrs. Rusco a Merry Christmas and a Happy New Year. Mr. Rusco, as his friends all know, can wax fluent concerning the merits of the line of goods he handles, and is gifted with a fund of ready repartee, but he was so deeply affected by this spontaneous offering that it was some time before he could find adequate words to express his deep appreciation of this kind remembrance on behalf of his colaborers for Novelty success.

## REPRESENTATIVES FOR PITTSBURGH STOVE & RANGE COMPANY.

The Pittsburgh Stove & Range Co., Pittsburgh, Pa., will be represented on the road during 1903 by the following corps of traveling salesmen: T. M. Dudgeon will interest the trade in their line of grates and fronts, and W. A. Gilliland will act as their furnace missionary. O. P. Miller will preach the merits of the Good Luck line in western Pennsylvania, Maryland and West Virginia, and Clark Knox will bring "Good Luck" in 1903 to the trade in northwestern Pennsylvania and Ohio. James H. Reed will visit dealers in eastern Pennsylvania and will also invade the coops of the Blue Hens Chickens in search of orders for Good Luck and Cinderella goods. The interests of the Cinderella line will be further cared for by A. F. Krause in western Pennsylvania and Maryland, R. L. Kirkwood in northwestern Pennsylvania and northern Ohio, and M. MacDonald in southern Ohio, West Virginia and Virginia. F. F. Jeffres will be the Tremont line evangel in Pennsylvania and West Virginia, and F. R. Voegtly will look after Triumph and Grafton goods in the same two states. T. R. Boss will visit dealers in Ohio and Indiana in behalf of the Tremont and Grafton lines, and J. L. McKee, C. C. McVay and A. Berleyette will care for the local dealers.

## CORRECTING PROOFS.

The Henry O. Shepard Co., 212-214 Monroe street, Chicago, send us a dainty little brochure entitled "Correcting Proofs" that will prove useful to newspaper men, advertisers and others who desire to intelligently mark printer's proofs. A list of proofreaders' marks and their application is given and by reference to this work the advertiser in glancing over proofs can indicate an "em quad space" or a "wrong font" so the humble compositor can grasp his meaning without wearing out unnecessary cerebral matter in deciphering the hieroglyphics that well meaning but untechnical advertisers sprawl over proof sheets in noting desired changes. When writing for one of these brochures kindly add: "Saw it in THE AMERICAN ARTISAN."

## A GOOD BUSINESS STROKE.

Experts state that the acquisition of the Union Steel Company at the price paid is one of the best strokes of business that the officials of the United States Steel Corporation have accomplished since the organization of the company. At an annual fixed charge of not more than $2,500,000 the trust has acquired a concern which is at present earning that amount with half its plants completed. Financiers also state that besides removing the most active competitor the deal has har-

monized an important interest which has been at variance with the steel trust and which would undoubtedly have proven worrisome in the future. The action of the steel stock was generally taken to mean that the deal was regarded favorably, for both the common and preferred shares advanced.

## JEWEL GASOLENE STOVES.

The George M. Clark & Company Division of the American Stove Co., Chicago, send us a handsome catalogue showing the Jewel gasolene stoves for 1903. Features of the Jewel smokeless generators include heavy cast brass generator head, removable plug for quick cleaning, all needle ells easily removed and renewable, and the Jewel cut-off for a sub-flame.

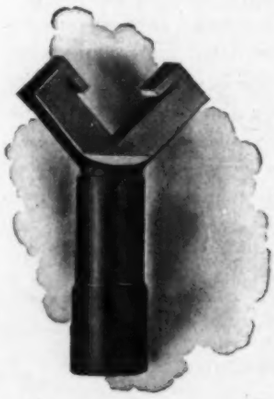
The smokeless lighting attachment consists of an additional ell, covered by a shield by which a blue flame is secured for lighting. The deep cup is so made that the small amount of gasolene which it holds burns blue. As no heating flame comes in contact with any of the needle points, there is no deposit of carbon. The individual Jewel burner has cut-off attachment, cast brass generator head, removable and renewable ell, burner cup 2½ inches in diameter, cast iron deep cup for lighting. The Jewel Acme has a shoulder on the needle to prevent enlargement of the orifice. The burner cup is 2½ inches in diameter. The burner head is cast brass. A large japanned wheel, lettered "open" and "shut," with handles, acts as regulator and as a stop to the needle. A heavy drip cup holding but little gasolene causes the lighting flame to burn blue, practically free from smoke or soot.

The Jewel smokeless generator range has cast iron frame mounted on casters. The body is made of cold-rolled sheet steel japanned. There are drip pans under all burners and two burners on the top, two on the step, either or both of which may be used. Other features are high shelf with nickeled brackets, raised grates, step at convenient height for wash boiler, drop oven doors with hardwood handles and flue connection at the rear.

Jewel evaporator stoves have a horizontal tank and valves independent of each other. The valve is removable and renewable. The sub-flame prevents flooding. Other features are leaded plate burner bodies and connections, clean-out slide at base of sub-burner, removable strainer of brass wire gauze in filling funnel, sight feed of glass and cast iron, cast iron burner bases and sub-flame burners, lugs at each valve outlet in the tank to prevent egress of sediment, clean-out slides for drip valves, front tubes of leaded plates japanned, cast iron protection for tubes and hoods, German silver needle valves, tank of leaded plate antique bronze plated and effective nickel and color ornamentation. Other stoves shown are the Jewel evaporator step stoves, Jewel evaporator ranges, Jewel generator Safety stoves, Jewel Acme stoves, Jewel Acme Safety step stoves, Olympia stoves, etc. One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

## ACETYLENE BURNERS.

The Sunlight Lava Mfg. Co., Chattanooga, Tenn., are makers of a line of acetylene burners that are built on correct theories and consequently spare the dealer the annoyances occasioned by the use of incorrect burners. Acetylene burners of Sunlight brand are correct theoretically, are rated accurately, tested carefully and shipped promptly. They are correct in design, affording very slight chance for the lodgment of dust. They are perfectly aligned, giving a maximum candle power. They are properly proportioned, preventing carbonization, and are clean cut, symmetrical and pleasing in appearance.



No. 22.

Each burner made by this company is inspected and tested during the various stages of its manufacture, and is only finally improved in the testing department of this concern when sure of giving complete satisfaction to the most critical. These burners are accurate to rated consumption and of uniform, steady, light-giving flame, without carbonization and with perfect combustion of gas. These burners are also superior in scientific design, having the mixture of gas and air carefully calculated.

Veritas Burner.

## NEW BUILDING FOR BUTLER BROS.

Butler Bros., Chicago, New York and St. Louis, have moved from their former quarters at 230-240 Adams street, Chicago, to new and more commodious quarters on Randolph street, just west of the Chicago river. This large wholesale house is now moving into two new buildings so situated as to give them magnificent shipping facilities and allow them to handle their business at a minimum expenditure of time and money. Their buildings take in very nearly two entire blocks and are connected by a subway underneath Randolph street. One of these buildings is 238x85 feet, thirteen stories high in one part and ten in another, and the other is 380x86, thirteen stories high. These buildings give them the stupendous floorage of sixteen acres. They also have a 676-foot shipping platform and a private track of practically the same length. This firm describe these new warehouses in their booklet, "The New Home of Our Chicago House."

They would be pleased to send this volume, also their catalogue, No. AA 451, to the trade on request. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

# The Hardware Record.

**American Hdw. Mnfs. Assn.**

Pres., F. R. Plumb, Philadelphia.
Vice-Pres.—F. S. Kretsinger, Ft. Madison, Ia.; J. C. Birge, St. Louis; Geo. W. Corbin, New Britain, Conn.
S.-T., F. D. Mitchell, Pittsburg.
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**Arkansas Retail Hdw. Dealers Assn.**

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2d V.-P., T. B. Stewart, Newport.
Sec., C. E. Taylor, Little Rock.
Ex. Com., H. Williams, Hot Springs; J. H. Bolcourt, Little Rock; E. E. Mitchell, Morrilton; W. M. Graham, Clarendon; R. F. Roys, Russellville.

**Chicago Retail Hdw. Dealers' Assn.**

Pres., D. McLaughlin.
V.-P., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

**Hardware Merchants' and Manufacturers' Assn of Philadelphia.**

Pres., William C. Peters.
V.-P., Thomas Devlin.
Sec.-Treas., T. James Fernley.
Directors, W. W. Supplee, H. McCaffrey, E. S. Jackson, W. C. Peters, S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

**Illinois Retail Hdw. Dealers' Assn.**

Pres., H. G. Cormick, Centralia.
V.-P., D. Holder, Bloomington.
Sec., L. H. Clark, Rockford.
Treas., F. F. Porter, Chicago.
Ex. Com., H. G. Cormick, Centralia; D. Holder, Bloomington; L. H. Clark, Rockford; F. F. Porter, Chicago; Z. T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; R. G. Scheurer, Vandalia; F. W. Siecke, Freeport.

**Indiana Retail Hdw. Dealers' Assn.**

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Sec.-Treas., M. L. Corey, Argos.
Members Ex Com., I. A. Sibley, South Bend; E. M. Bush, Evansville; W. H. Weed, Vincennes.

**Indian Territory Retail Hdw. Assn.**

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1st V.P., Fred Parkinson, Wagoner.
2d V.-P., E. C. Stretch, Vinita.

**Iowa Retail Hdw. Dealers' Assn.**

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V.-P., J. Seither, Keokuk.
Sec., W. H. Keating, Ottumwa.
Treas., Geo. Lister, Manchester.
Exec. Com., J. Seither, Keokuk; Clarence Philips, West Liberty; L. Lindenberg, Dubuque; T. J. Lomas, Cresco; C. F. Schmidt, Marshalltown; Homer Duncan, Albia; L. H. Kurtz, Des Moines; C. R. Keating, Mt. Ayr; Chas. Swaine, Council Bluffs; H. S. Vincent, Ft. Dodge; W. H. Millard, Cherokee.

**Kansas Hardware Dealers' Assn.**

Pres., Oscar Roehr, Topeka.
V.-P., E. J. King, Logan.
Sec.-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kiniry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City; T. J. O'Neill, Osage City.

**Kentucky Retail Hardware and Stove Dealers' Association.**

Pres., W. T. Oldham, Mt. Sterling.
1st V.-P., J. L. Macin, Vine Grove.
2d V.-P., W. S. Shacklett, Fulton.
Sec., Paul Wagner, Louisville.
Treas., Henry Heick, Louisville.

**Michigan Hardware Association.**

Pres T. Frank Ireland, Belding.
V. Pres., John Popp, Saginaw.
Sec., A. J. Scott, Marine City.
Treas., H. C. Weber, Detroit.
Ex-Com., J. B. Sperry, Port Huron; F. A Turner, Caro; J. G. Patterson, Detroit; F. S. Carlton, Calumet; S. E. Hunt, Detroit; Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Otsego; A. Harshaw, Delray; A. J. Scott, Marine City.

**Minnesota Retail Hardware Assn.**

Pres., W. H. Tomlinson, LeSueur.
V.-P., H. S. Cleveland, Minneapolis.
Treas., W. E. Barto, LongPrairie.
Sec., M. S. Matthews, Mnpls.
Exec. Com., W. H. Tomlinson, Le Sueur; H. S. Cleveland, Minneapolis; F. E. Hunt, Red Lake Falls; Benj. F. Kernkamp, St. Paul; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; C. F. Ladner, St. Cloud; J. Schmidt, Wabasha; E. H. Loyhead, Fairibault. A. T. Stebbins, Rochester; J. McGuire, St. Paul.

**Missouri Retail Stove and Hardware Dealers' Association.**

Pres., Tayler Frier, Louisiana.
V.-P., Ed L. Wachter, St. Louis.
Sec., F. M. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrolton; F. A. Kannsteiner, St. Louis; Frank Mayer, Macon.

**National Hardware Association.**

Pres., R. A. Kirk, St. Paul.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., John Freeman, Detroit; Samuel B. Bigelow, Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. W. Shapleigh, St. Louis.

**Nebraska Retail Hdw. Dealers' Asn.**

Pres., T. W. Morton, Omaha.
1st V.-P., C. K. Lawson, Hastings.
2d V.-P., W. T. Coleman, McCook.
3d V.-P., J. C. Cornell, Ord.
Sec.-Treas., Harry Hall, Lincoln.

**National Retail Hdw. Dealers' Asn.**

Pres., H. G. Cormick, Centralia, Ill.
V.-P., C. N. Barnes, Grand Forks.
Sec., M. L. Corey, Argos, Ind.
Treas., W. Bogardus, Mt. Vernon.
Exec. Com., W. P. Bogardus, Mt. Vernon, O.; O. P. Schlafer, Appleton, Wis.; C. F. Ladner, St. Cloud, Minn.; W. A. McIntire, Ottumwa, Ia.; S. E. Jones, Richmond, Ind.

**N. Dakota Retail Hdw. Dealers' Asn.**

Pres., H. N. Joy, Hamilton.
V.-P., H. F. Emery, Fargo.
Sec., C. N. Barnes, Grand Forks.
Treas., W. H. Pinkerton, Dakota.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; Anton Enger, Cooperstown; Frank Lish, Dickinson; H. F. Strehlow, Casselton; I. L. Newgard, Grafton.

**Ohio Hardware Association.**

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V.-P., L. F. Stahler, Waverley.
Cor. Sec., D. R. Burr, Piqua.
Fin. Sec., W. C. Jones, Columbus.
Treas., H. A. Waller, Ravena.
Ex. Com., J. B. Carson, Hamilton; C. D. Cussins, Columbus; C. W. Jewell, Utica; M. B. Talmage, Mt. Gilead; H. F. Rahe, Cleveland; J. Rohrbacher, Akron; A. H. Strume, Wausau; Geo. G. Meyer, Cincinnati.

**Pennsylvania Retail Hdw. Assn.**

Pres., Geo. L. Moore, Brownsville.
V.-P., Geo. J. Rudolph, Pittsburg.
Sec., J. E. Digby, McKeesRocks.
Treas., B. A. Maggine, Braddock.
Ex. Com., E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock; C. O. Shroyer, Dawson.

**St. Louis Stove Dealers Assn.**

Pres., F. A. Kansteiner.
1st V.-P., Aug. Steinmeyer.
2d V.-P., Aug. Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

**Southern Hardware Jobbers' Assn.**

Pres., F. A. Heitman, Houston.
1st V.-P., Col. B. F. Eshelman, New Orleans.
2d V.-P., John Donnan, Richmond, Va.
Sec., C. B. Carter, Knoxville.
Ex. Com., W. M. Crumley, Atlanta, Ga.; O. B. Barker, Lynchburg, Va.; Chas. H. Ireland, Greensboro, S. C.; C. S. Speer, Hot Springs Ark.

**Texas Hardware Jobbers' Assn.**

Pres., Jas. Moroney, Dallas.
1st V.-P., J. C. Bering, Houston.
2d V.-P., J. Burnsides, Ft. Worth.
Sec.-Treas., R. Bell, Weatherford.
Ex. Com., G. A. Trumbell, Dallas; F. A. Heitman, Houston; E. S. Hughes, Abilene; J. J. Dickerson, Paris.

**Wisconsin Hdw. Dealers' Assn.**

Pres., O. Schlafer, Appleton.
V.-P., L. Findiesen, Green Bay.
Sec.-Treas., C. A. Peck, Berlin.
Ex. Com., J. Kornelly, Milwaukee; E. H. Ramm, New London; A. Noll, Chilton; H. L. McNamara, Janesville.

John D. Good, who started a hardware store in Morris, Minn., in 1874, died recently.

The Michigan Bolt & Nut Works, Detroit, Mich., will shortly build a large addition to their plant.

The London Fence Machine Co., Cleveland, O., will shortly build a machine shop at an expense of $3,000.

Brutus J. Clay has been appointed temporary receiver for the Landstreet Hardware Co. of Atlanta, Ga.

The Upson Nut Co., Unionville, Conn., have completed a new building, which they will use as a stock room.

The Oswald Iron Works, Ltd., New Orleans, La., have changed their style to the Southern Marine Works.

The Toledo Wire & Iron Works, Toledo, O., will shortly erect a two-story building, 66x115 feet in dimensions.

A severe fire in Knoxville, Tenn., on Dec. 22 severely damaged the establishment of the Geo. Brown Hardware Co.

The Gray & Dudley Hardware Co., Nashville, Tenn., expect shortly to establish a large warehouse in Memphis, Tenn.

The Southern Bolt & Nut Works of Birmingham, Ala., have consolidated with the American Bolt Co. of Lowell, Mass.

Frank Exline, C. W. Lennon and J. Joy are the incorporators of the Exline Motor & Pump Co., Geddes, S. D., capitalized at $100,000.

John E. Sommers and H. H. Hobson are among the incorporators of the Sommers Hardware Co., Clarksdale, Miss., capitalized at $20,000.

The plant of the Norton Mfg. Co., at Chester, Conn., has been purchased by J. R. Ferguson & Co., who will manufacture wire novelties.

Henry Urban, formerly of the Richmond Shovel & Tool Works, has been selected as manager of the Wright Shovel Co.'s plant at Anderson, Ind.

Robert L. Stanton, Wm. A. Schofield and Chas. W. Battey are the incorporators of the Rhode Island Scale Co., Providence, R. I., capitalized at $10,000.

Edward Hanlon, a well-known Medina, N. Y., hardware dealer, died at his residence in that city on Dec. 19th. He had been a hardware man at that point since 1876.

David A. Nicoll, Thornton Rollins, Chas. O. Scull, S. T. Hamilton, and T. W. Blakistone are the incorporators of the Nicoll Enamel Paint Co., Baltimore, Md., capitalized at $50,000.

William W. Evans, Andrew Hummeland and Rex Mackenzie are the incorporators of the United States Company, Chicago, capitalized at $25,000 to manufacture and deal in hardware.

The American Hardware Corporation, New Britain, Conn., are erecting a $25,000 addition to their factory. This will be made of brick and will be four stories high, 50x71 feet in dimensions.

Instead of giving their usual annual banquet this year, Farwell, Ozmun, Kirk & Co., St. Paul, Minn.,

distributed a cash appropriation among their employes, graded according to the length of time each man had been in the service of the house.

John E. Lower, Asbury P. Orr, John A. Weisser, Henry C. Lower and James C. Lower are the incorporators of the Arcadia Hardware Co., Indianapolis, Ind., incorporated with a capital stock of $14,000.

The establishment of the Acorn Brass Works, Chicago, were very slightly damaged by a fire which occurred in the Fulton Market Building on Dec. 21 last, but not enough to interfere with their business.

The Stillwater Hardware Co. of Stillwater, Mich., are very proud of their bowling team. In the recent contest for the commercial championship of the city they took three straight games against the Bronson & Folsom Co., by the scores of 816-652, 763-702, 828-721.

The Supplee Hardware Co., 503 Market street, Philadelphia, are offering the trade a complete line of very desirable mechanics' aprons. These are made of brown duck and have four pockets, two large and two small, the small ones being above the large ones. All are reinforced with leather.

E. B. Pike, president Pike Manufacturing Co., Pike Station, N. H., in the course of a recent interview in a southern industrial paper, says: "All the manufacturers that I know of are crowded with orders, and many of them are running their factories night and day. The outlook for the coming year, I believe, is just as promising as it has been for the past five years."

Rue & Roberts, Charlotte (Mich.) hardware dealers, were visited by fire on Dec. 16. The damage, which was principally from water, amounted to several thousand dollars. By a whimsical coincidence, the Chicago office of the Schneider & Trenkamp Co., of which Mr. Rue of this firm was manager for a number of years, was destroyed by fire on very nearly the same evening as the fire visited this hardware store at Charlotte, Mich.

## A POPULAR GUN.

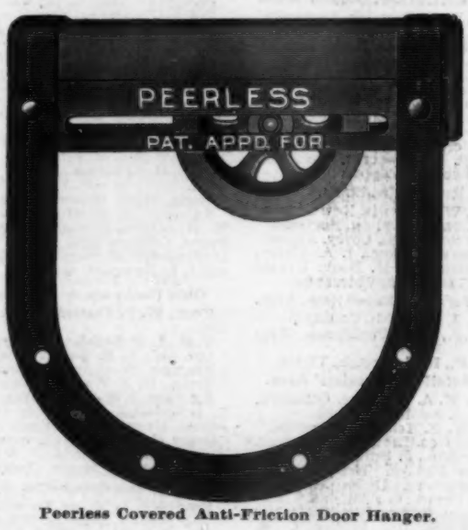
The accompanying cut shows the Hopkins & Allen lever action single-barrel gun manufactured by the Hopkins & Allen Arms Co., Norwich, Conn. This gun has been upon the market for about 15 years and over a quarter of a million have been sold. Its sale was temporarily discontinued about a year ago, owing to a fire in this company's plant, but in response to the demand of the trade they are putting them on the market again.

Hopkins & Allen Lever Action Single Barrel Gun No. 2012.

The manufacturers claim that this gun has the strongest action that has yet been made. The barrel fits into the frame and by this method is reinforced the whole length of the chamber, and the barrel and frame remain stationary in working the gun. The gun is opened by dropping the lever, which slides down the breech block and operates the automatic ejector. This throws the shell clear of the gun. The barrel is detached from the frame by removing the ring screw key on the under side of the frame. This gun has a dark walnut stock, with nicely checkered pistol grip and fore-end, rubber butt plate, case-hardened frame and rebounding lock.

## PEERLESS COVERED ANTI-FRICTION DOOR HANGER.

The C. S. Smith Mfg. Co., Milwaukee, Wis., for whom Wagner & Marshall, 40 Dearborn street, Chicago, are sales agents, are manufacturers of the Peerless covered anti-friction door hanger shown in the accompanying cut. This is an all steel hanger, excepting the wheel, which is furnished either of cast iron or




Peerless Covered Anti-Friction Door Hanger.

of special steel, and in either case is provided with a deep groove to prevent it from jumping off the track. The wheel does not detach from the hanger and has a steel covering to protect it from snow and ice. The axle is made from a special cold drawn steel with a shoulder formed on one end, holding the same in the sidebar, which has the slot rounded at each end, giving it an endless run. The Peerless hangers are all well made throughout and are finished nicely in baked japan.

## COLORADO DEALERS WILL ORGANIZE.

The hardware dealers of Pueblo, Colo., met Dec. 20 for the purpose of making plans for the organization of a state hardware dealers' association. There are a great many hardware dealers in Colorado and the Pueblo dealers are anxious to form an association, and to have the association hold their first meeting in that city.

## ACCUSES WHOLESALER OF SELLING DIRECT.

TO THE AMERICAN ARTISAN.

In looking over an old issue of THE AMERICAN ARTISAN I came across the accompanying slip, which I cut out.

WILL FIGHT MAIL ORDER HOUSES.

According to Cortland Van Camp, president of the Van Camp Hardware and Iron Company, Indianapolis, the new hardware merger will make a hot fight against the mail order houses that sell directly to the consumer. "The retail business is being demoralized by the catalogue houses," said he in a recent interview in the Indianapolis News, "and we hope to benefit the legitimate dealer. He will find that the price of goods will be less than ever."

This firm should not throw stones at others. While I am not a friend of the catalogue house, but I will say that this firm sells to customers direct. I know this is so, because I have galvanized iron in my shop now that these people sold to the owner of a grain elevator here to use for his corn cob spout on his elevator. I made the spout for this man out of iron sold by this firm to this elevator man for his own use, and more, too, he got a better price than I could obtain of said firm. If this elevator man was not a consumer direct, I would like to see a real one then.

This man got my prices, then went to Indianapolis and bought this iron of the wholesale house direct, and I know and can prove the above to be a fact. I also saw the invoice sent from the house and know just the price paid for the iron. I don't blame the consumer for buying where he can buy best, but the wholesale man should not send his salesman to the dealer and then sell the consumer at a less price direct from the house. J. W. BROWN.

Kempton, Ind., Dec. 15, 1902.

A. F. Ramharter, Clear Lake, S. D., writes: "I am much pleased with the Manual of Business. It contains a great deal of useful and much absolutely necessary information for any business, and especially so for the young man just beginning business, who would either have to learn by costly experience and hard knocks or from such a manual as this. Every reader of THE AMERICAN ARTISAN should have one."

## BUSINESS CHANGES.

NEW FIRMS.

Utica, N. Y.—The Roberts Hardware Co.
Copperas Cove, Tex.—P. K. Klem.
Olyphant, Pa.—John Lally.
Newport, Neb.—Clell L. Bell.
Doran, Minn.—Johnson & Torkleson.
Sleepy Eye, Minn.—E. P. Bertrand.
Nashwauk, Minn.—C. E. King.
Carl Junction, Mo.—W. T. Roney.
Georgetown, Ky.—T. A. Hornsey.
Gulfport, Miss.—Meyer & Neville.
Gypsum, Kan.—Hall & Banks.
Littleton, W. Va.—Ezra Dougherty.
Memphis, Tenn.—Benedict, Warren & Davidson.
Millersburg, Pa.—Thos. J. Long.
Princeton, N. J.—Wm. P. Van.
Silverton, Ore.—C. M. Wray.
Brooksfield, Ind.—Frank Masters.
Cedar Rapids, Ia.—Herman Kruse.
Davenport, Ia.—Mr. and Mrs. Geo. W. Davis.
St. Joseph, Mich.—Andrew Kramer.
Prophetstown, Ill.—Mason Brewer.
Gucksen, Minn.—Owens & Co.
Bridgewater, Ia.—Ed. Sulgrove.
Atlanta, Ga.—Eberhardt & Zachery.
Waxahachie, Tex.—Mr. Calfee.

BUSINESS CHANGES.

Grand Island, Neb.—Hill & Hummell succeeds Mr. Drews in the hardware business.

Kenyon, Minn.—J. Thornblad succeeds E. Lunde.

Eyote, Minn.—Rhames & Sasse succeed C. E. Bondy.

Hardwick, Minn.—Grier Bros. are succeeded by the Iowa Interstate Trust Co.

Hancock, Minn.—Stone & Stebbins Co. were victims of a disastrous fire recently.

Harmony, Minn.—Aaberg & Nelson have dissolved, and Samuel Aaberg will continue the business.

Hartland, Minn.—T. C. Nolan is about to sell his interest in the firm of Donavan & Nolan.

Rippey, Ia.—N. P. Burk is succeeded by J. B. Meyers & Co.

Basset, Ia.—Potter & Beard are succeeded by Beard & Miller.

Peterson, Ia.—Dean & Everett are succeeded by F. W. Hintz.

Little Rock, Ia.—Smith & Kennedy are succeeded by A. H. Kennedy.

New Hampton, Minn.—E. J. Ure and Chas. F. Rekers have dissolved partnership.

Mediapolis, Ia.—J. L. Sciscoe has sold his interest to his partner in the firm of Sciscoe & Wilson, who will continue the business alone.

Erwin, S. D.—Walter L. Newport has sold out to Robinson & Co.

Spencer, S. D.—C. J. Lybarger succeeds R. W. Countryman.

Waubay, S. D.—Englehart & Hovland succeed G. S. Maynard.

Mt. Vernon, S. D.—The Hatch-Arland Co. are succeeded by Holmes & Howe.

Hannah, S. D.—Jas. McPhail is about to be succeeded by the Hannah Supply Co.

Two Dot, Mont.—The Babcock-Miles Hardware Co. have changed their name to the G. R. Wilson Co.

Nevada, Tex.—Wylie Bros. are succeeded by Geo. Pool.

Franklin, Ky.—Hatter & March succeed D. H. Hatter.

Elizabeth, W. Va.—T. R. Kirchner succeeds H. E. Kirchner & Co.

Frost, Tex.—Scott Bros. & Bryant succeed Patterson, Owen & Co.

Murfreesboro, Tenn.—Street & Spain have dissolved, F. L. Spain succeeding.

Lawrenceburg, Ky.—John F. Johnson is succeeded in the Johnson & Mahan Co. by Harry McAfeu.

Van Alstyne, Tex.—The Jackson-Howle Hardware Co. succeeds T. P. Howle and the Jackson Hardware & Implement Co.

Unadilla, Neb.—J. F. Abbott Estate has been purchased by Forest J. and Williard Abbott.

McPherson, Kan.—C. E. Freeberg & Co. succeed C. M. Gray.

Emmetsburg, Ia.—Jay Letson succeeds Henry Knuth.

Holley, N. Y.—D. M. Morton is succeeded by Wm. Payne and V. G. Trimble.

Markesan, Wis.—McVay & Sohman are succeeded by John and Fred Card.

Glenwood, Wis.—A. C. Harriman succeeds M. Y. Cliff.

Gallatin, Mo.—R. L. Van Meterem succeeds Darrias McCulley.

Clinton, Ia.—The Tracy Hardware Co. has been purchased by C. W. Constock.

Durand, Ill.—Elvin Reigle succeeds Frank Sheik.

Winterset, Ia.—Garner has sold a half interest in his store to Wm. J. Rusk, and the firm will now be known as Garner & Rusk.

Lyons, N. Y.—Nohle & Hartman are about to dissolve, and the business will be conducted by Wm. T. Hartman.

Manson, Ia.—Chas. Burke succeeds J. B. Wartehow & Co.

Troy, Ala.—J. Randolph Brown is succeeded by Coleman & White and Brantley & Son.

Arlington, Ia.—Marve Walrath is succeeded by A. F. Hauf.

Lorain, O.—T. H. Artress is succeeded by the Central Hardware Co.

Eagleville, Tenn.—W. E. McCord has incorporated under the firm name of McCord Bros.

Brink Haven, O.—B. F. De Long is succeeded by Wm. Bailey.

Everett, Wash.—The Pacific Hardware Co. have been succeeded by Gus Kimberly and D. P. Osland.

Everett, Wash.—Wm. Christenson succeeds Wiard & Abby.

Mohler, Wash.—J. R. Stanley succeeds F. A. Boozer in the hardware and implement business.

Newport, Wash.—The Grover & Krautner Hardware Co. succeed T. J. Kelly.

Republic, Wash.—The Eureka Hardware Co. are about to be succeeded by the Stack Supply Co.

Decatur, Ia.—The Noah Loch hardware stock has been purchased by Loch & Linn.

Bartlett, O.—A. M. and C. F. Law are succeeded by Marshall Bailey and W. J. McGirr.

Bellefontaine, O.—Omar Armstrong is succeeded by Wm. McCracken.

Boonsboro, Md.—D. C. Y. Bollinger succeeds Henson M. Young.

Brattleboro, Vt.—W. H. Proctor of the firm of Mellen & Proctor is succeeded by J. E. Mellen.

Centerville, S. D.—L. Va Hoorhees succeeds J. C. Berglund.

Emington, Ill.—Mr. Gaston of the firm of Brown & Gaston has sold his interest to Frank Lehman.

Everett, Wash.—A. Kimberly succeeds the Pacific Hardware Co.

Lincoln, Neb.—W. R. Jakway has sold his interest in the Lincoln Hardware Co. to E. E. Henkle, W. G. Morrison and R. M. Joyce.

Loraine, Ill.—Monroe Hartman succeeds McCune Bros.

Nunda, N. Y.—A. M. Dake of J. M. Dake & Son has sold out to Mervin J. Taylor and W. F. Smith.

Opelika, Ala.—A. B. Ware & Co. are succeeded by Brownfield Bros.

Lorain, Ohio.—T. H. Artress is succeeded by the Central Hardware Co.

Spring Grove, Ill.—Jacob Freund succeeds Alexander & Gould.

Maquon, Ill.—Obe Swearinger and George Walker are about to open up a hardware store in the old A. M. Maple building.

Neola, Ia.—A. E. Pearce succeeds J. H. Burns.

New Castle, Pa.—Kirk & Smith Hardware Co. have dissolved, and the firm name will now be Smith, Hutton & Kirk.

Mitchellville, Ia.—Chris Cross, in partnership with J. D. McGarraugh, will embark in the hardware business.

Nevada, Ia.—F. Wholheter & Son are about to be succeeded by Allen & Phillips.

Liberty, Mo.—Price Boggess succeeds D. E. Bell.

Murfreesboro, Tenn.—Street & Spain have dissolved; F. L. Spain will continue the business.

Arkansas City, Ark.—W. W. Seyfert has sold his interest in the Hamilton Hardware Co.

New Sharon, Ia.—Geo. Way and Geo. Groves succeed James Carkuff.

Rembrant, Ia.—Wm. Brandvold is succeeded by G. A. Spiegelberg.

Monticello, Ia.—Mr. Butterfield succeeds J. W. Kieron.

MISCELLANEOUS.

Hancock, Minn.—Stone-Stebbins Co., fire loss.

Roy, Wash.—A. Warren & Co. are putting an addition to their store.

Canton, Ill.—The Olds Hardware Store has been bought by Mosher Bros.

Henvelton, N. Y.—Wm. Goodison has purchased the Elliott store.

Monticello, Ia.—The Eastwood & Chase Hardware Co., fire loss, $35,000.

Delano, Minn.—T. B. Rader is about to erect a new store building.

Hamberg, Minn.—Henry Dittmer is erecting a new store building.

Kiester, Minn.—M. Fasel and J. M. Kahle have consolidated.

Steen, Minn.—J. H. Zenker & Son are advertising their business for sale.

Crawfordsville, Ind.—Houlehan Hardware Co., burglarized; loss, $60.

Stafford, Kan.—John Garvin, fire loss, $35,000.

Boise, Idaho.—The Loree & Swain Hardware Co. have increased their capital stock.

Lexington, Mo.—C. H. Schaefermeyer was burglarized recently.

Avoca, Ia.—Hetzel Hardware Co., burglarized.

Bangor, Pa.—Dutt Bros., burglarized; loss, revolvers.

Cheney, Wash.—V. T. Ward, burglarized; loss, revolvers.

Mt. Vernon, Tex.—M. L. Edwards, burglarized; loss, pistols and razors.

Newton, N. J.—John W. Lane's Sons, burglarized; loss, $25.

Pine Bush, N. Y.—McKinney & Ward, burglarized; loss, $40.

Waverly, Neb.—Geo. C. Pennington, burglarized; loss, cutlery and silver.

Wymore, Neb.—Stephenson & Lasher burglarized; loss $100.

Grand Forks, N. D.—C. A. Rheinhart has moved into his new building.

Hunter, Mo.—Wright Bros., fire loss $15,000.

New Westminster, N. C.—R. F. Anderson, fire loss $35,000, ins. $5,000.

Doniphan, Mo.—Wright Bros., fire loss.

Archer, Ia.—A. Menning, fire loss $6,000, insurance $3,000.

Storm Lake, Ia.—J. D. James, burglarized.

STOPPAGES.

Austin, Man.—W. M. Irving has assigned.

Fostoria, O.—Nicholas Portez has filed a petition in bankruptcy, with liabilities of $100,000.

Harrisburg, Pa.—H. A. Gable has made an assignment.

Lynchburg, Va.—The Clark Hardware Co. have made an assignment.

New Bedford, Ill.—John W. Young has dissolved.

New Haven, Conn.—Cox & Lyon have filed a petition in bankruptcy.

Rockwall, Tex.—J. L. Underwood has assigned.

Santa Monica, Cal.—Jackson Bros. have filed a voluntary petition in bankruptcy.

Galt, Ia.—Henry Knuths has gone out of business.

# Heating and Ventilating.

The Crane Co., Chicago, have increased their capital stock from $5,000,000 to $7,000,000.

M. J. Birgeman of Green Bay, Wis., has invented an instantaneous water heater intended for attachment to bath tubs, wash bowels, etc.

The Naphthalene Mfg. Co., Toledo, O., are open for bids from firms building garbage plants and sterilizing refuse. They would be glad to hear from parties in need of heating and drying machinery. They are increasing their capitalization to $1,000,000.

W. H. Colebrook's Sons Co., Syracuse, N. Y., send a little card giving a Christmas greeting to their friends, to whom they state they owe the great measure of success they have attained, for without them they could never have proven the merit of their Crown asbestos cement and stove putty.

## A SPECIAL FURNACE CATALOGUE.

The March-Brownback Stove Co., Pottstown, Pa., have issued a very valuable special furnace catalogue which they are sending to dealers who write them for a copy. This special furnace catalogue No. 54 is much more than a mere catalogue of the line of Crown warm air furnaces, as it is a compendium of up-to-date and valuable information regarding the construction, installation and management of warm air furnaces. This valuable data can be had for the asking. All the dealer has to do is to send this firm a postal, kindly adding: "Saw it in THE AMERICAN ARTISAN."

## SCHOOL HEATING.

The heating of school houses by the most modern and up-to-date methods calls for specially designed and elaborate heating systems and as exemplified by the best modern practice embodies many new and interesting ideas. W. A. Clark & Co., 35 Pike street, Covington, Ky., are manufacturers of warming, ventilating and sanitary apparatus for public and private buildings. The accompanying cuts show plans of the heating apparatus they have recently placed in a Lorain (O.) school building. This building contains ten rooms and employs the plenum, furnace, hot blast system.

The blower for this system was arranged so as to give a constant supply of air under all conditions of outside thermal, hydromatic and thermometric changes, the air to be supplied by the blower operated by an electric motor or a gas engine with belt attachment. All rooms are ventilated as indicated in the accompanying drawings. This blower has a capacity sufficiently large to change the air in each room to which it is supplied, giving to each setting 25 to 30 cubic feet of air per minute, allowing each setting 9 square feet of floor space.

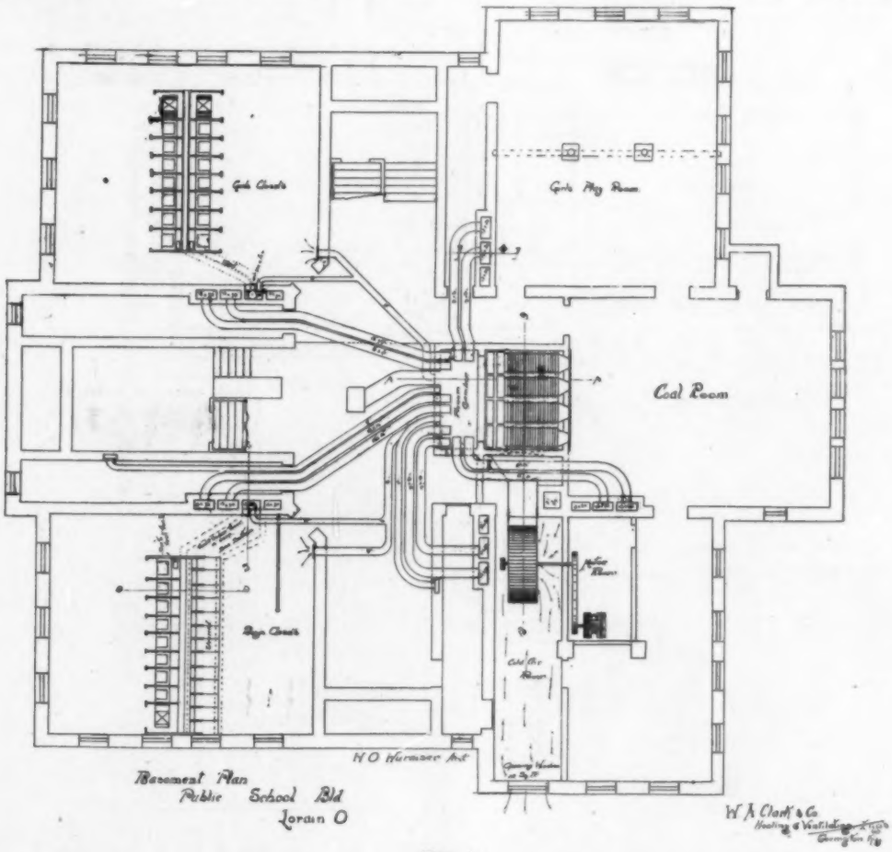



Fig. 1.

The firm installing this apparatus agreed to make a test showing the amount of air delivered in each room while the blower is in operation, also to furnish a test sheet of the amount of air delivered per minute in each of the various rooms.

The building is provided with openings for the egress of foul or vitiated air, all ventilating flues be-

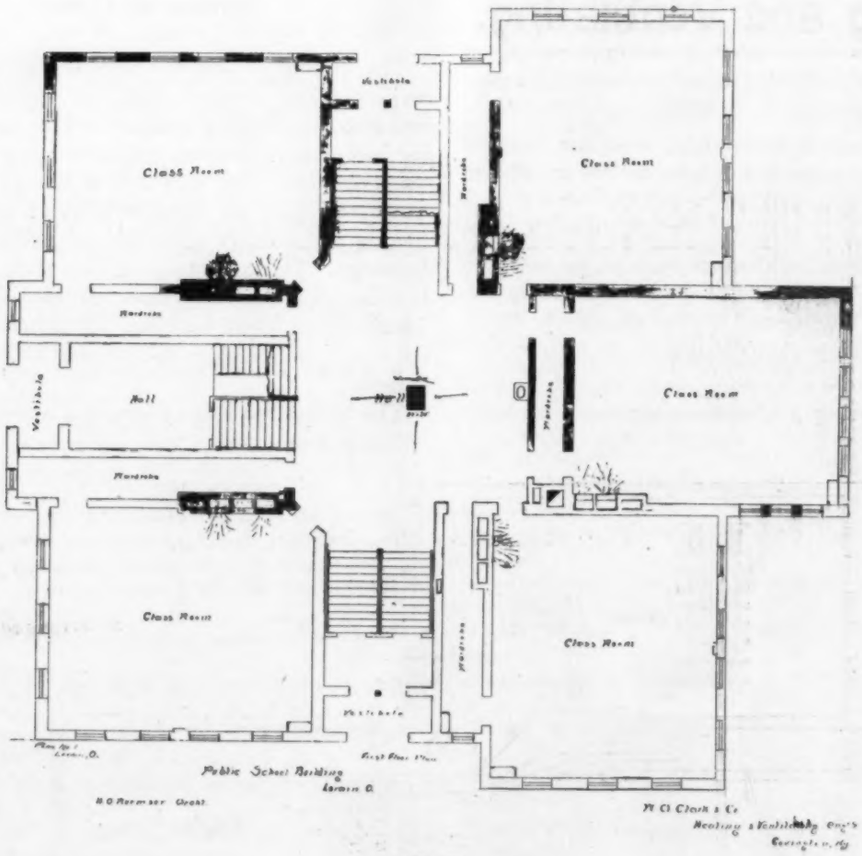

Class Room
Class Room
Class Room
Class Room
Class Room
Hall
Hall
Vestibule
Vestibule
Vestibule
Wardrobe
Wardrobe
Wardrobe
Wardrobe
Wardrobe
Public School Building
Lorain O.
H. O. Mormser Archt.
W. C. Clark & Co.
Heating & Ventilating Eng'rs
Covington, Ky.

Fig. 2.

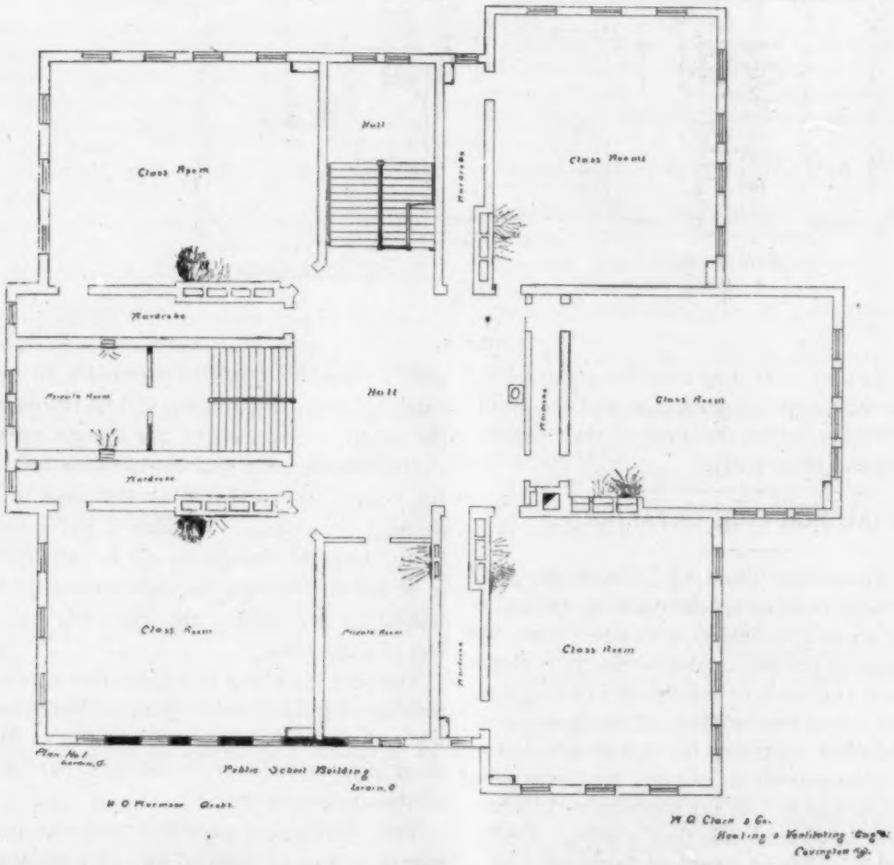

Class Room
Class Rooms
Class Room
Class Room
Class Room
Hall
Hall
Wardrobe
Wardrobe
Wardrobe
Wardrobe
Wardrobe
Wardrobe
Private Room
Private Room
Public School Building
Lorain, O.
H. O. Mormser Archt.
W. C. Clark & Co.
Heating & Ventilating Eng'rs
Covington Ky.

Fig. 3.

ing carried through the roof to a height six or eight feet above the highest point of the roof.

The furnaces used in heating this building were No. 10 long, low furnaces, weighing 6,000 pounds each. Each furnace used has about 212 feet of prime radiating surface and about 50 feet of what may be designated as secondary radiating surface. Each furnace has about six and two-thirds feet of grate surface. The ash pan in this furnace is very wide, 4 feet long and 15 inches deep, giving plenty of space for air for combustion.

These furnaces are made on perfect lines for expansion and contraction. Each flue is provided with register boxes and each face is one-third larger than the capacity of the flue.

Galvanized iron pipes start from the plenum chamber and run as per plans and connect in flues. The galvanized iron used is 24 gauge with double capped seams and all joints put together in reference to easy flow of air. The blower is of standard make, built of steel plate with floats well balanced to prevent whistling and adjustable pivot bearing, self-oiling boxes.

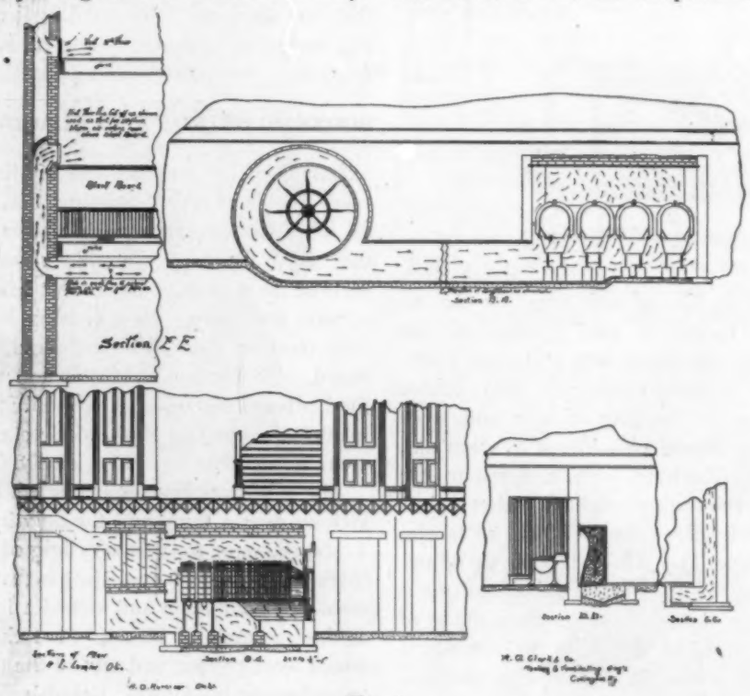


Fig. 4.

## A CAST VS. A STEEL FURNACE.

To The American Artisan.

Since my letter of Dec. 9 I have received a catalogue from a steel furnace concern and in comparison with the cast furnace I will say the fire pot on the steel furnace is 20 inches and the fire pot of the cast furnace is 20 inches, and I find the cast fire pot has 200 square inches more radiation on the cast furnace than the steel furnace, as it is two inches deeper. Then it has radiating wings, which gives it still more radiation than the steel furnace fire pot. Then the steel furnace radiator falls short about 2,000 square inches as compared with the furnace, and the fire does not travel as far in the steel furnace radiator as it does in cast furnace. I call it a steel furnace, while in reality there is very little steel about it, as it is principally all cast and wrought iron as far as I can see. The steel furnace is not to be compared in any way with the cast furnace in any point they wish to suggest. I. E. Dayton.

Walnut, Ia., Dec. 23, 1902.

## AN EXCEEDINGLY HANDY BOOK

The American Miller of Oct. 4 says:

"Daniel Stern, publisher of The American Artisan, 69 Dearborn street, Chicago, has added another to his admirable list of 'American Artisan Manuals,' the last title being 'The Manual of Business.' The title is descriptive, the work being a handbook of correct forms for executing all commercial instruments and of data and advice on innumerable questions arising in commercial life. The contents include chapters on correspondence, bookkeeping, debts and collections, banking, contracts and other commercial instruments, patents, measurments, interest and discounts, laws of real and personal property, dictionaries of business terms and business observations, maxims, etc., all making a volume of 264 pages, bound in red cloth, with stiff board sides. It is an exceedingly handy book, as well as a timely one, and is made still more valuable by an ample index."

## WILL SAVE BUSINESS MEN TIME AND MONEY

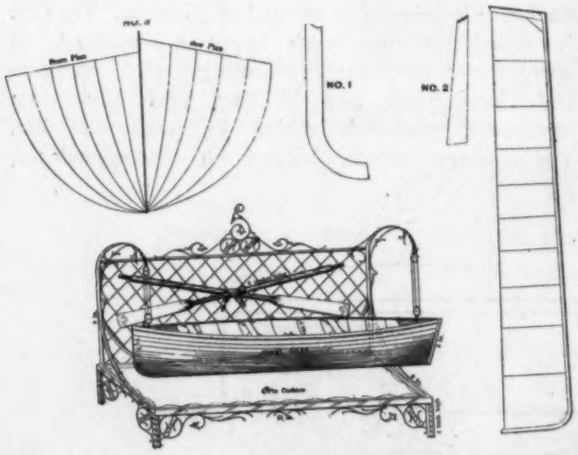
H. J. Hall, Lincoln, Neb., writes:

"Your Manual of Business received and after carefully looking through the contents we feel that it will save a business man a great deal of time and money in giving information which will enable him to decide questions that are not familiar, and about which he would ordinarily be in doubt. We thank you for calling our attention to this work."

# Tinshop.

## JEWEL BOAT AND PIN CUSHION.

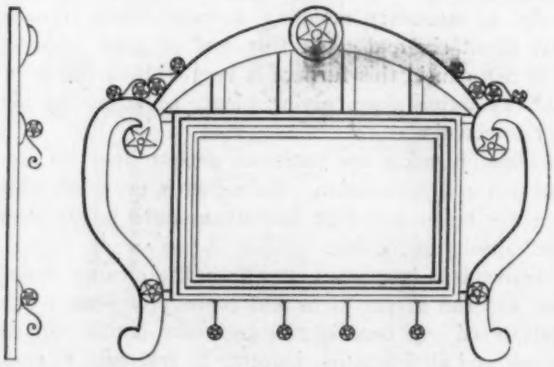
Herewith are drawings for a jewel boat or casket and pin cushion combined. To construct the boat first produce a piece for the keel, 9 inches long by ¾ inches wide. Fold each edge at right angles to the bottom of keel, thus each side of this figure being one-fourth inch. The ends must be pinched together, as the bow and stern of the boat are sharp. The stem is to be cut as in No. 1, the stern post as in No. 2. The




planking of the boat is No. 26 soft brass or No. 16 brass wire. If the former is used it must be cut twelve inches long by one-eighth inch wide and twisted. The ribs are No. 14 brass wire or tin strips double folded and formed as in the plan of bow and stern No. 3. The planking should be soldered to stern and stern posts after the ribs have been soldered to the keel, and should be about three-eighths inches apart. The boat is lined with wine-colored plush, as is also the pin cushion below. The pin cushion is to be upholstered to form a cushion. The scrolls are all made of soft wire and sheet brass. The oars are made of brass, tied with wine-colored ribbon to the netting of back of frame. This netting is of fine wire, one-half inch web.

## STAR HAT RACK.

Herewith is full-sized pattern for star hat rack. The central part of the diagram is a mirror 10 inches high by 16½ inches from left to right. The molding is not so broad as represented in the engraving and stands out 1¼ inches from the back, and the back extends about one-half inch beyond the molding all around, forming a vase for it to rest upon. The arms or scrolls at the side are 20 inches high and 2 inches wide at the top and 2½ inches wide at the bottom. A band 1 inch wide is soldered on at the edges of these scrolls and the crescent-shaped pieces at the bottom, making them appear to be an inch thick. The sweep of these arms is 8 inches from the outside at lower part to the side of the scroll at the bottom end of arm, next to the molding. The distance across the frame work at the bottom of the mirror and molding is 21 inches between the side scrolls or arms. The crescent-shaped piece is 2¾ inches wide in the middle and 1½ inches at the ends. The upright bars are ⅞ inch wide on the front, the sides being folded back to represent solid bars. The length of the end bars is 2½ inches and the middle ones 4 inches. The ornaments on the top are 4 inches high, the standards being ¼



inch on face, and the circular discs containing stars 1¾ inches in diameter. The rosette fastened on the front is a two-quart bucket pressed cover.

## BOOZY BLOTTERS AND PLAGIARIZED POETRY.

Last Monday we had one of the latest blotters issued by the Avery Stamping Co., Cleveland, O., in an office, but we had to destroy it as it was so loud that the proprietors of a boiler shop three blocks away secured an injunction against us before Judge Verideff to stop the noise. In rendering his decision he said that blotters, like children, should be seen and not heard. He further intimated that we must have used the blotter to sap up wood alcohol for if he ever saw an inanimate object in the tertiary stage of delirium tremens it was this blotter assuredly.

The Chicago fire was started by O'Leary's cow kicking over a lamp and the only hypothesis on which we can account for this whirligig of red, green, yellow, black, amber yellow and white is that a cow became excited in a paint shop and kicked a few buckets of paint against a stack of blotters next the wall, sections of which were cut out and sent to the trade as Forest City amendments to Aubrey Beardsley's most "prismatic" productions. Joking aside, these are nicely enameled blotters showing the world as a "chef" using the Never Break spider, while elongated strips of color looking more like amoebae or protoplasm than anything else are "wheeling and hurtling through the realms of space," as Wendell Phillips would say.

On this blotter is the following pun taken from Chapter XVIII of Sartor Resartus by Thomas Carlyle: "What the world cooks with is the 'Pan' American or 'Never Break' spider," while it also contains the following cantos plagiarized from Book III of Absolom and Achitopel by John Dryden:

The World with brand of "Never Break"
  Utensils stamped from Steel,
From break of day to sunset glow,
  Prepares each welcome meal.

The World is wise, not otherwise,
  Such thrifty course to take;
The years roll by and time will try
  Utensils of this make.

Unyielding strength of "N-B" steel
  Answers the World's demand;
The World is wise, not otherwise,
  In choosing the "Never Break" brand.

One of these blotters will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

## ART MODELING.

The accompanying cuts show some of the superior designs manufactured by the Art Modeling Works at

Monumental Design.

their establishment, 832 Market street, Camden, N. J., where models and dies are made for stamping, illustrating, photoengraving, advertising signs, ornaments, statuary, ceilings, centers, towers, brackets, medallions, garlands, etc., and metal ceilings, relief signs, letters, metal statuary, composition letters, artistic metal, monuments and signs for advertising are sold. N. H. Nowak, the head of this establishment, superintends the installations of art fixings in buildings, has had a large experience with some leading firms in Europe and the United States; has erected a large number of statues and has modeled work and directed the placing of it in position in the interiors of many churches. A beautiful and important execution of this interior work may be seen in the Seminary Chapel at Quebec, Canada, where the metal finish of the pillars and capitals, the balcony rails and arch, all of which were made from galvanized sheet steel and zinc, are from designs of Mr. Nowak's, who also superintended the final work in the interior. The making of all kinds of models, dies and composition work is increasing in this country, and foreign demands for our artistic work in this line are encouraging.

Vase Design.

Statue Design.

This firm received a recent order from Sydney, New South Wales, for one of their galvano-bronze monumental figures. At the works the experts in designing and making dies are busy filling orders for ceilings and ornamental stampings.

This concern make a specialty of patterns in plaster paris for the ceiling trade, but do not make metal ceilings themselves. They also make figures for tombstones, tombstone monuments and hearses.

## A CUT-OFF AND STRAINER IN ONE.

The Galesburg Cornice Works, Galesburg, Ill., are manufacturers of a rain water cut off and strainer which possesses many new patented features. This

New Patent Cut-Off

novel combination is so constructed that while the water can be easily turned into or from the cistern, it is at the same time cleared of all leaves, sticks, bugs, etc., that may come down the conductor pipe. Either way the switch is turned the strainer is in operation and the leaves, etc., are thrown out by the force of the water. Another feature of this invention is that the lever which operates the cut-off always points in the direction that the water will flow, and any doubt on

this point in the mind of the consumer who wants to be sure that the cut-off is set right can be quickly dispelled by a glance, for "one can see the interior" through the opening by which the clearance of the cut-off is effected. These cut-offs are made of the best special extra coated IX terne plate.

## NOTES AND QUERIES.

SOLDER FOR ALUMINUM.

From Herbert J. Harris, Philadelphia, Pa.

Would like recipe for a good aluminum solder.

Ans.—The composition of solders for aluminum that are generally used is as follows: 80 parts zinc, 12 parts aluminum, 8 parts copper; 88 parts zinc, 7 parts aluminum, 5 parts copper; 94 parts zinc, 4 parts aluminum, 2 parts copper; 90 parts zinc, 6 parts aluminum, 4 parts copper, and 85 parts zinc, 9 parts aluminum, 6 parts copper. First prepare an aluminum copper alloy which is to be mixed with the requisite amount of zinc. Melt the copper and then gradually into same the aluminum, divided into three or four portions; make a perfect mixture by stirring. After the last of the aluminum has been put in, throw in the zinc, and with it some fat or resin, then stir the mass rapidly and directly remove the crucible from the fire and pour the alloy into iron molds, which have been rubbed with benzine or cold tar oil.

STEAM ROAD ROLLER.

From "Reader," Milwaukee, Wis.

Where can I buy a steam road roller?

Ans.—F. C. Austin Mfg. Co., Harvey, Ill.; Buffalo Pitts Co., Buffalo, N. Y.; Enterprise Mfg. Co., Columbiana, O.; Harrisburg Foundry & Machine Works, Harrisburg, Pa.; Jas. L. Haven Co., 56 Plum street, Cincinnati, O.; Indiana Road Machine Co., Fort Wayne, Ind.; O. S. Kelly Co., Springfield, Ohio; S. S. Messinger & Son, Tatamy, Pa.; Russell & Co., Massillon, O.

EXPANSION BOLTS.

From A. W. Hartman, Star City, Ind.

Would like address of manufacturers of expansion bolts?

Ans.—F. H. Evans, 596 Kent avenue, Brooklyn, N. Y.

ACME PULVERIZERS.

From C. L. Parkin, Goodhue, Minn.

Who makes the Acme pulverizer?

(Can any of our readers answer this question?)

PERFECTION SANITARY SPITTOON BRUSH.

From F. R. Stevens, Grand Forks, N. D.

Who makes the Perfection sanitary spittoon brush?

(Can any of our readers answer this question?)

SUCCESSORS TO CHICAGO STAMPING CO.

From J. C. Moebus, Butte, Mont.

Who are the successors of the Chicago Stamping Co.?

Ans.—Sturges & Burn Mfg. Co., Chicago.

AN ALLOY FOR LINING BEARINGS.

From A. E. R., Chicago.

Can you give me a formula for a good alloy for lining bearings?

Ans.—For lining bearings, crank-pin bushes and other parts, exclusive of crosshead bushes, the following alloy has been found, after extended experience, to give good results: Twelve parts tin, one part copper, one part antimony, mixed in the following way: Six parts tin alloyed with one part antimony, and six parts tin with one of copper, and the two mixed together.

## ITEMS.

Samuel Divinger has opened a tin shop at West Alexandria, O.

A. M. Crane & Co., Inc., Chicago and New York, have just taken the agency for the Muskingum Valley Co., Pittsburgh, Pa.

Chas. Burkholtz, a tinner residing at 1018 Tenth street, Milwaukee, Wis., drank carbolic acid during the evening of Dec. 17 and died at 5 o'clock in the morning. He leaves a wife and four children.

The Republic Iron & Steel Co., Pittsburgh, Pa., have invited their employes to take stock in that firm and to elect a member of its directorate. The plan will be laid before the Amalgamated Association of Iron, Steel & Tin Plate Workers at its next annual convention for approval.

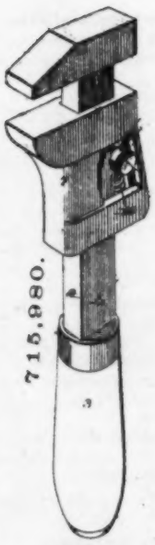
Benj. J. Kershaw, who has a wide acquaintance among metal men in all sections of the country, and who for a large number of years visited the trade in the interests of the N. & G. Taylor Co. of Philadelphia, has, after occupying a similar position with another concern, returned to his allegiance to this old-time Philadelphia concern.

It is said that the unfilled orders in the various constituent companies of the United States Steel Corporation are larger in the aggregate than at the time the last statement covering business on hand was given out. The demand for wire products is unusually pronounced for this time of the year, and the tin plate mills of the company are gradually resuming, and it is said the product of tin plate will be normal by the middle of January.

The Pittsburgh Cornice & Skylight Co., Pittsburgh, have been incorporated for the manufacture of architectural sheet metal work, including copper and galvanized iron cornices, skylights, bay windows, ridge roll, metal ceilings and ventilators. The offices of this company are located at 802 Keystone Bank Building, Pittsburgh, and L. C. Getsinger is president and W. W. Fellers is general manager. They expect to have their new factory ready by April 1 next.

Merchant & Co., Inc., Philadelphia, Pa., send us a little circular describing some of their lines of tin plate. The Merchant's "Old Fashion" iron roofing plates are made by palm-oil process. They have a pure iron base and extra heavy coating evenly applied. The sheets are resquared and stamped with the brand and thickness. Merchant's "American Pure" iron roofing plates have galvanized pure iron base. They are heavily and evenly coated by the palm-oil process, resquared, stamped with brand and thickness and carefully assorted. Merchant's "Pure Iron" bright plates have, it is claimed, a perfect coating, free from surface defects, blisters or irregularities of any kind.

# NEW PATENTS.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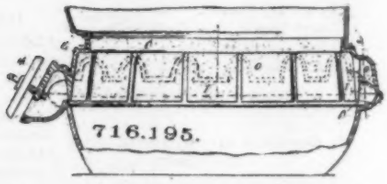
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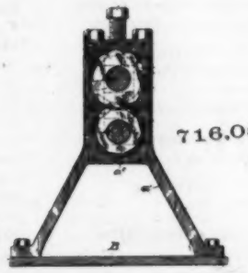
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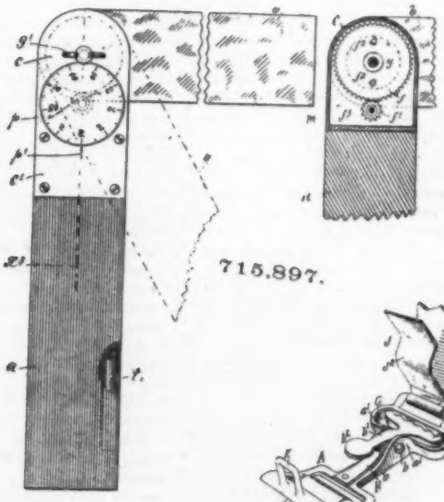
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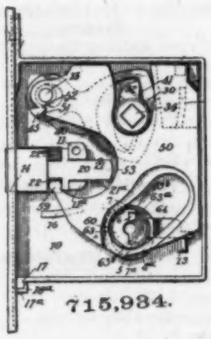
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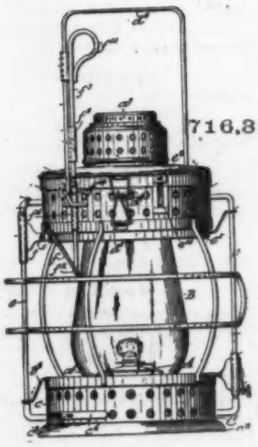
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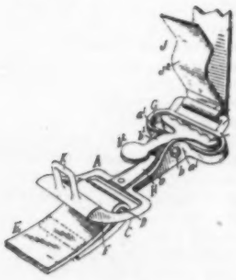
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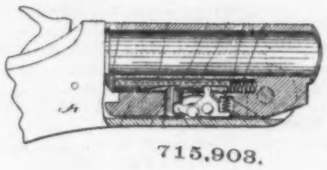
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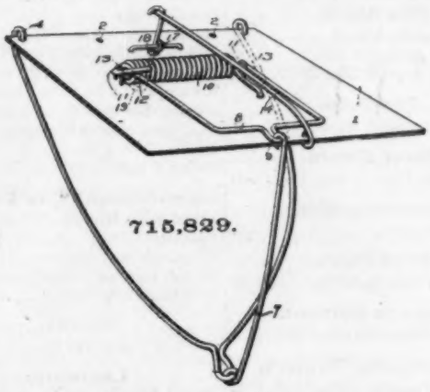
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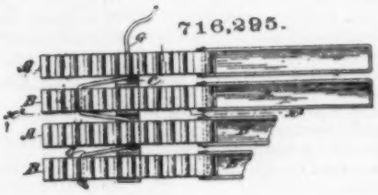
716,152.


716,295.

715,980—Wrench. Omer P. Case and Thomas Y. Vincent, Canandaigua, N. Y.

716,195—Stove or furnace. George W. Cope, Detroit, Mich.

716,052—Sheet metal bending machine. Charles W. Kennedy, Rutledge, Pa.

715,915—Pliers. Hubert L. White, Utica, N. Y.

715,934—Lock and latch. John C. Alman, Gibsonton, Pa.

716,332—Signal lantern. Alfred C. Bunne, New York, N. Y.

715,897—Bevel square. Eric W. Streed, Minneapolis, Minn.

715,948—Buckle. James Beveridge, Brooklyn, N. Y.

715,903—Ejector mechanism for firearms. Reinhard T. Torkelson, Warren, Mass.

715,829—Animal trap. Joseph E. Manlove, Bushnell, Ill.

716,152—Adjustable door hanger. David S. Watson.

715,295—Hair curler. Annie Sheridan, New York, N. Y.

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## THE GROWTH OF CHILD LABOR.

It does humanity good to stop and look at itself once in a while. For years realistic writers have been castigating the South because of the number of children who are forced to work in cotton mills. A good many tears have been evoked because of a situation that is plainly wrong, and must sooner or later be remedied.

But the South isn't alone in the child employing business. The curse is a national one.

At a meeting in New York the other day it was stated that in every city in the United States children who should be in school are working long hours and are being literally defrauded of their youth.

They are in the coal breakers of Pennsylvania, in the shops and stores of Ohio; slaving in California, in Maine—everywhere.

Miss Jane Addams of Chicago, is authority for the statement that child labor is increasing more rapidly in Illinois than in any other state in the Union.

It is the shame of America, and an excuse that will warrant the situation in this great, wealthy land does not exist.

You cannot blame the children; the fault does not always lie with parents, and the employer, with some justice, says: "I am confronted by a condition, not a theory. I can't compete without adopting the methods of my competitor."

Some day that must all be settled. There are moral rights that belong to every child born into the world. He or she is entitled first of all to health and growth unstunted by too much labor; to happiness; to play times—fresh air, sunshine, all the enjoyments peculiar to child life; to education—all the education that the public schools can furnish. Those things are rights, often forgotten, but rights none the less. In these days only the well equipped can hope to succeed. Success most often attends goods minds and strong bodies.

If the children of now are not given a chance to become mentally and physically perfect men and women a handicap is placed on posterity. It is more than a handicap; it is a crime.—Ex.

## A GOOD SPRAY PUMP.

As a demonstrator of the efficacy of spray pumps, A. Ruhl, of the Ruhl Stove and Hardware Company of Stockton, has made a record. A week ago Mr. Ruhl had occasion to do a little spraying at his house, so he took a sprayer from the store to his residence to do the work with. After finishing he took the machine back to the store. It happened that a lady came in the following day and asked Mr. Ruhl if he had any spray pumps.

"Oh, yes," said Mr. Ruhl, "come right back here and I will show you one."

The lady went to the rear of the store and Mr. Ruhl took down the pump he had been using, remarking:

"Here is one I have myself been using. I will show you how it works. You put your foot in here, and then shove down on the handle."

At that juncture Mr. Ruhl received about two quarts of whitewash in his face and down the front of his attire, causing him to give vent to a hasty exclamation. On putting away the pump he forgot to relieve it of a large charge of whitewash, so that he received the contents in his face while explaining to the prospective customer how it should be operated. Of course, he wouldn't have turned the hose toward his face had he known the whitewash was there. After he had changed his clothes and got the stuff out of his countenance he volunteered the explanation that he "didn't know it was loaded."—Pacific Hardware Journal.

# Trade Report.

### CHICAGO IRON MARKET.

Official notification has been made by railroads that the freight rate on pig iron from the Ohio river to points North will be advanced 20 cents a ton on Jan. 1, and will apply on material shipped from that date. The present rate is $2.75 from Birmingham to the Ohio river, and $1.40 from the latter point to Chicago, and when the increase goes into effect, the total freight rate will be $4.35.

Buying of pig iron during the week has been confined almost entirely to iron for spot delivery. Prices have stiffened, and No. 2 foundry is selling at $25.15 to $26.15.

There is little interest shown in the market for deliveries in the new year, although all sellers agree that prices will advance after the first of January.

The firmness of the market may be judged from the fact that an order for 10,000 tons of No. 2 soft and No. 3 foundry, for delivery in January, February and March, which has been offered several firms in the past week, has not yet been placed.

There is a good demand for high silicon irons, and for quick delivery 5 per cent silicon is offered at $29, and 8 per cent silicon at $33.50.

No. 2 foundry and soft for delivery in January and February is quoted at $20 Birmingham. For shipment after this date, $18.50 to $19 Birmingham is the general range.

### WIRE NAILS.

Business is excellent. Carload lots remain at $2, with smaller lots at $2.10.

### CUT NAILS.

Cut nails are in moderate demand. Carload lots are $2.15 and smaller quantities are $2.20@2.25.

### BARB WIRE.

Galvanized barb wire is $2.60 in carload lots and $2.70 in smaller lots. Painted barb wire is $2.30 in carload and $2.40 in smaller lots.

### ROPE.

Manila 7-16 and larger is 11@11½c per lb.

### TURPENTINE.

Southerns are 55@55½c. Machine made barrels are 55½@56c.

### SCRAP IRON.

There is a quiet trade in scrap iron at unchanged local prices: Pittsburg is quoted firmer, with No. 1 wrought at $21@21.50 per ton. Here the quotations are: No. 1 wrought railroad, 80@85c; No. 1 wrought dealers, 75c; No. 1 cast, 85@90c; wrought turnings, $14 per ton; cast borings, $8@8.50 per ton; stove plate, 60c; soft steel, $17 per ton; old iron rails, $21 per ton; old steel rails, $17@18.

### COPPER.

Copper is dull and nominal, with prices unchanged. The New York quotations are: Lake, round lots, 11.65c; electrolytic, 11.45c; casting, 11.45c. London was cabled firm. Standard copper, closing spot, £51 7s 6d; sales, 275 tons; futures, £51 16s 3d; sales, 500 tons.

### TIN.

Tin is firm with a further advance in New York. Jobbing prices are higher here: New York, round lots, spot, 25.95@26.20c; futures, 25.75@26.05; jobbing, 27½@28½c. London was last cabled strong at £117 15s for spot; £118 7s 6d for futures.

### TIN PLATE.

Tin plates are quiet and unchanged; Melyn, $6.50 @7; Alloway, $5.75@6.25; coke, $4.87½@6.50; ternes, $5.25@8; additional X, $1.50@1.75 more.

### LEAD.

Lead is steady and unchanged: Round lots, New York, 4.12½c; jobbing, 4⅜@4¾c, according to amount; London, £10 16s 3d; St. Louis, firm at 3.95c; Manufactured: Pipe, 6½c; sheet, 7¼c; tin pipe, 50c; tin-lined pipe, 12½c; old lead, in exchange, 3¾c; tee, 3¼c.

### SPELTER.

Spelter is weak and lower: Round lots, New York, 4.80c; jobbing, ¼@½c more; sheet zinc, cask lots, 6¾@7c; small lots, 7¾@8c; St. Louis market is quoted at 4.55c; London, £19 17s 6d.

### ANTIMONY.

Antimony is dull and depressed: Cookson's, 9@ 9½c; Hallet's, 7¼c; United States star and other brands, 6⅞c.

### NICKEL.

Nickel is steady at 40@47c for large lots. Small lots as high as 60c.

### PLATINUM.

Platinum is firm with a good demand: New York, $19 per oz for large lots.

### QUICKSILVER.

Quicksilver is steady and unchanged: New York, $48 per flask for large lots; small orders more; San Francisco, $45.50@46.50, domestic orders; exports, $43.50@44; London, £8 15s.

### ALUMINUM.

Aluminum is steady: No. 1 ingot, 33@37c per lb; No. 2, 31@34c; rolled sheets, 4c and up.

### BARS.

Specifications for iron bars have been in good volume during the week under review, though new business has not been of large proportions. Prices are weak, and sales are reported at 1.75c. A good tonnage has been booked for steel, one large manufacturer reporting an aggregate of 10,000 tons. Inquiries and orders for next year's shipments are growing in volume, while specifications have been better than for many weeks past. There is a good demand for angles, mills being sold ahead two or three months. We quote mill shipments, Chicago delivery, Bessemer steel, 1.75c to 1.85c; angles, less than 3x3, 1.85c to 1.95c, base; iron, 1.75c to 1.85c; hoops, 2.15c. Prices on lots from store, steel, 2c to 2.10c; iron, 2.15c to 2.20c; hoops, 2.40c to 2.50c; angles, 2.50c to 2.60c.

### SHEETS.

New business is not heavy, demand being mostly for gauges from 16 to 20. We quote No. 27 black, mill shipment, 2.75c to 2.85c; galvanized, 3.35c to 3.65c; for deliveries from stock, No. 27 black, 2.95c to 3c; galvanized, 75 per cent to 75 and 5 per cent.

### STRUCTURAL STEEL.

The tonnage placed during the week has been fairly large, including one order for 8,000 tons, and several lots of from 1,000 tons downwards. We quote mill prices, Chicago delivery, beams, 15 inches and under, 1.75c to 2c; 18 inches and over, 1.85c to 2.10c; universal plates, 1.75c to 2c; angles, channels and tees, smaller than 3 inches, 1.85c to 2c base. On lots from store, cut to length, we quote 2¼ to 2½ cents per pound.

### BILLETS.

There have been sales of foreign billets approximating about 3,000 tons. We quote domestic open-hearth billets for forging purposes, $37 to $40, according to tonnage and point of delivery; for use in rolling mills, $33.50 to $34. German basic Bessemer billets are offered at $27.50 to $28, seaboard, duty paid, for round lots—5,000 tons and upward—of one size and one carbon. Special carbons can be had abroad, but bring higher prices according to specifications and quantity.

### MERCHANT STEEL.

New business is very light, mills not desiring to obligate themselves further, being sold up for several months. Specifications are in good volume. We quote mill shipments, Chicago delivery, as follows: Spring steel, 2.65c to 2.75c; sleigh shoe, 1.95c, flat sizes; concave and convex, 2c; out of store, 2.15c; cutter shoe, 2.50c to 2.60c; machinery steel, 2.15c to 2.25c, base; plow steel, 2.50c and upwards according to quality; toe calk, 2.30c to 2.40c; out of stock, 3c to 3.10c; ordinary tool steel, 6c to 7c; specials, 13c and upwards; less than carload lots, 5 per cent to 10 per cent higher; cold rolled shafting, carload lots, 47 per cent off, Chicago; less than carload lots, 42 per cent off, Chicago,

### MERCHANT PIPE AND BOILER TUBES.

The open weather of the month, permitting building operations to be carried on uninterruptedly, has kept up the demand for pipe, and the leading producer reports that the aggregate tonnage placed is large. There is a good demand for boiler tubes, and prices are without change.

### RAILS AND TRACK SUPPLIES.

Inquiries from electric roads for standard sections are numerous, though the percentage that result in orders is small owing to the inability of mills to promise delivery before next fall. The demand for light rails is brisk, particularly from the South, where track building operations are not interfered with by the weather. There is a brisk trade in spikes and bolts. We quote standard sections, $28; second quality, $27; light rails, 45 pounds, $34 to $35; 12 pounds, $40 to $41, with regular differentials for intermediate sizes; light rails out of store, $45 to $50. Track supplies, mill shipment, are quoted as follows: Angle bars, 2c to $2.10c; spikes, first quality, 2.25c; second quality, 2.15c; track bolts, 3½x3¾, with square nuts, 2.85c to 3c per 100 pounds; with hexagon nuts, 3.05c to 3.15c, with usual differentials for other sizes.

### MICA.

The importation of mica from Canada and India tends to curtail the production of the United States, especially the India mica, which can be imported at a cost lower than that for which it can be mined in this country. There was an increase last year in the production of plate mica in North Carolina. The use of plate mica sheets for stoves, chimneys, etc., has increased greatly, but still more the use of small circular disks and rectangular pieces of mica for insulation purposes and for electrical apparatus. Ground scrap mica is used in the manufacture of wall papers, lubricants, etc. Scrap mica, also, arranged on a wire net coil and then pressed into proper shape, is used very satisfactorily as a boiler tube covering, mica being a non-conductor of heat.—Chicago Journal.

### TIN DEPOSITS IN QUEENSLAND.

Consul F. W. Goding sends from Newcastle, October 23, 1902, a newspaper clipping which reads: "A considerable amount of attention has lately been paid by mining investors to the North Queensland tin fields. The Stannary Hill mines are being steadily developed. The shaft on the Ivanhoe mine is down 300 feet, and the ore body is twenty-four by eighteen feet wide. About 1,200 tons are in the ore bins, which will bulk nearly 20 per cent. This is the largest stack of rich ore that has been seen in one heap in North Queensland. The Kitchener shaft has been sunk to a depth of 250 feet, and the ore body opened up, without encountering the walls, is thirteen by thirty feet, bulking about 8 per cent. The site chosen on the Walsh river for the Stannary battery and concentrating mill has been cleared. Its erection will be immediately commenced. The twenty-head battery being erected will treat 400 tons weekly, which, with 10 per cent ore, should show very handsome profits. The Vulcan mine, at Irvinebank, is still on good ore, and last month their crushing of 800 tons gave over 10 per cent of oxide. They are now down about 800 feet. About five miles from Coolgarra very rich lodes are being developed."—Bradstreet's.

# Quotations.

## METALS.

### FIRST QUALITY BRIGHT PLATES.

| | | Per Box. |
|---|---|---|
| IC | 14x14 | $10 00 |
| IC | 14x20 | 7 25 |
| IX | 14x20 | 8 50 |
| IXX | 14x20 | 9 75 |
| IXXX | 14x20 | 11 00 |
| IXXXX | 14x20 | 12 25 |
| IC | 20x28 | 14 50 |
| IX | 20x28 | 17 00 |
| IXX | 20x28 | 19 50 |

### COKE PLATES.

| | | | |
|---|---|---|---|
| Cokes, 180 lbs | IC | 20x28 | 8 45 |
| Cokes, 200 lbs | IC | 20x28 | 8 75 |
| Cokes, 216 lbs | IC | 20x28 | 9 05 |
| Cokes, 216 lbs | IX | 20x28 | 10 85 |

### PIG IRON.

| | |
|---|---|
| Lake Sup. Charcoal | $25 00@$26 00 |
| Local Coke Fdy No. 1 | 23 50@ 24 00 |
| Local Coke Fdy No. 2 | 23 00@ 23 50 |
| Local Coke Fdy No. 3 | 22 50@ 23 00 |
| Local Scotch Fdy No. 1 | 24 00@ 24 50 |
| Southern Coke No. 1 | 24 65@ 25 15 |
| Southern Coke No. 2 | 24 15@ 24 40 |
| Southern Coke No. 3 | 21 65@ 21 90 |
| Southern Coke No. 4 | 21 15@ 21 40 |
| Southern No. 1 Soft | 24 65@ 24 90 |
| Southern No. 2 Soft | 24 15@ 24 40 |
| Southern Gray Forge | 21 15@ 21 65 |
| Southern Silveries | 25 65@ 26 65 |
| Jackson Co. Silveries | 31 00@ 32 00 |
| Ohio Strong Softeners | 27 00@ 27 60 |
| Alabama Car Wheel | 26 65@ 27 65 |
| Malleable Bessemer | 24 00@ 24 50 |

### BLACK SHEET STEEL.

| | | |
|---|---|---|
| No. 16 | per 100 lbs. | $3 90 |
| No. 18-20 | per 100 lbs. | 3 10 |
| No. 22-24 | per 100 lbs. | 3 20 |
| No. 25-26 | per 100 lbs. | 3 30 |
| No. 27 | per 100 lbs. | 3 40 |
| No. 28 | per 100 lbs. | 3 50 |
| No. 29 | per 100 lbs. | 3 65 |

### SMOOTH STEEL.

| | | |
|---|---|---|
| Wood's Smooth | No. 15-17 | 3 20 |
| " " | No. 18 | 3 30 |
| " " | No. 20 | 3 40 |
| " " | No. 22-24 | 3 50 |
| " " | No. 25-26 | 3 55 |
| " " | No. 27 | 3 70 |
| " " | No. 28 | 3 80 |

### PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel.
"A" $10 20, "B" $9 20

### GALVANIZED IRON

| | Per 100 lbs. |
|---|---|
| 26 Ga.—24, 26, 28 and 30 in. x 8 ft. | $4 40 |
| 26 Ga.—36 in. x 8 ft. | 4 70 |
| 27 Ga.—24, 26, 28 and 30 in. x 8 ft. | 4 70 |
| 27 Ga.—36 in. x 8 ft. | 5 00 |
| 28 Ga.—24, 28 and 30 in. x 8 ft. | 5 00 |
| 28 Ga.—36 in. x 8 ft. | 5 25 |

### HOOP IRON.

| ¾x22 | ¾x20 | ⅞x20 |
|---|---|---|
| $3 20 100lbs. | $3 10 100lbs. | $3 00 100lbs. |
| 1x20 | 1¼x19 | 1½x19 |
| $2 90 100lbs. | $2 85 100lbs. | $2 75 100lbs. |

### PAINTED CORRUGATED IRON.

8-ft. sheets, 2½x28 Ga. per sq., $2 60

### SOLDER.

| | |
|---|---|
| XXX Guaranteed ½&½ per lb. | 19c |
| Commercial ½&½ per lb. | 17¾c |
| No. 1 Plumbers | 15¾c |

### SHEET ZINC.

| | |
|---|---|
| 600 lb. Casks base, per cwt. | $6.50 |
| 300 lb. Casks per cwt. | 6.70 |
| Sheets per cwt. | 6.90 |

### COPPER.

Copper base, 20c

### TIN PIGS AND BARS.

| | |
|---|---|
| Banca, pigs, per lb | 35@35½c |
| Straits pigs, per lb | 35c |
| Straits in bars, per lb | 37c |

### LEAD.

| | |
|---|---|
| American Pig | $4 60@4 62½c |
| | 5¾@6¼c |

## HARDWARE.

### QUOTATIONS.

**(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)**

### ADZES.

*Carpenters'.*
Ajax 50%
Blood's 40&5%
Hunt's 25%
White's 12½%
*Coopers'.*
Barton's 20%
White's 15%
*Ship.*
Ajax 50%
Blood's 40&5%
Hunt's 25%
White's 12½%

### AMMUNITION.

*Caps, Percussion—per 1,000.*
F L Waterproof, 1-10s 50c
G D 35c
Eley's 50c
*Cartridges.*
Peters Rim Fire Ctgs 50&3%
Peters Cent Fire, Pistol & Rifle 25&3%
Peters Cent Fire, Military and Sporting Ctgs 15&8%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.
Peters Blank Ctgs. 22 cal. $1 18
Peters Blank Ctgs. 32 cal., C. F. 4 40
Peters B B Caps, Round ball $1 44
Peters B B Caps, Conical ball $1 85
U. M. C. Rim Fire Ctgs 50&3%
U. M. C. Cent. Fire, Pistol & Rift 25&3%
Winchester Cent. Fire, Military and Sporting Ctgs 15&8%
U. M. C. B B Caps, Round Ball $1 75..18%
U. M. C. B B Caps, Con. Ball $1 85 net
U. M. C. Rim Fire Shot Ctgs. 50&15&3%
U. M. C. Cent. " " " 25&10&3%
*Primers.*
Berdan Primers $1 00
Peters Empty Paper Shells, 16 gauge. League 20&2%
Peters New Victor Nitro Shls 20&2%
Ideal 25&7%
Peters Loaded Shells. League and Referee Semi-Smokeless 40&6%
Peters New Victor Loaded Shells, with King's Smokeless 40&10&1%
Ideals Loaded with King's Smokeless 40&10&10&6%
U. M. C. New Club, 16 gauge 20&2%
U. M. C. New Club 25&2%
U. M. C. Nitro 20&2%
U. M. C. High Base 20&2%
Winchester Blue Rivals } 20&2%
Winchester Yellow Rivals }
Winchester Repeater 20&2%
Winchester Leader 25&7%
U. M. C. Loaded Shells, Black Powder } 40&6% full cases
Winchester Loaded Shells, Black Powder }
U. M. C. } Smokeless 40&10&10&6% full cases
Winchester }
*Gun Wads—per 1,000.*
Peters Gun Wads 18%
U. M. C. Gun Wads 18%
*Powder.*
King's Quickshot Powder; Kegs $4.50; ½ kegs $2.50; ¼ kegs $1.40.
King's Semi-Smokeless, new list 10%
King's Smokeless, new list 10%
Austin Quickshot Powder, Kegs $4.50; ½ kegs $2.50; ¼ kegs $1 40
Dupont Smokeless, Sporting, 25, 20, 10&10%
*Shot.*
Drop shot, sizes smaller than B, 25-lb. bags, per bag $1 30
Drop shot, B and larger sizes, 25-lb. bags, per bag 1 55
Buck Shot, 25-lb. bags, per bag 1 55
Chilled Shot, 25-lb. bags, per bag 1 55

### ANVILS.

Trenton, 70 to 80 lbs 9¼c per lb
Trenton, 81 to 150 lbs 9c per lb

### AUGERS.

*Boring Machine* 65&10%
*Carpenters' Nut* 65&10%
*Hollow:*
Ives' New Pattern 25%
Bonney's—list $30.00 65&10%
Stearn's, No. 1 doz. $42.00
Stearn's, No. 3 " 33 50
*Post Hole.*
Dalbey, 8-inch per doz. $ 5 75
Digwell, 8-inch " 13.00
Howe's, 6 and 8-inch " 12 50
Vaughan's, 4 to 9-inch " 7 00
*Rafting.*
Snell's 50&5%
*Ship.*
Snell's, with or without screw 67&5%

### AWLS.

*Brad*, handled per doz. $0 20
shouldered, ass'd, 1 to 4 per gr. 1 10
patent, asst'd, 1 to 4 " 95
*Harness*, common " 1 20
patent " 95
*Peg*, shouldered " 1 10
patent " 40
*Scratch*, No. 2, handled " 4 50
No. 1, socket handled per doz. 1 15
*Sewing*, common per gr. 1 10
patent " 95

### AXES.

*Boys', Handled:*
Camp Fire, 3-lb., per doz $5 75
" " 4-lb., freighters', per doz 6 75
Cast Steel, good grade, pr. dz. 5 50
Pioneer, per doz 6 75
*Broad:*
Peerless 50%
Plumb's Canada Pattern, ½50-10-5%
" Western " 40-10-5%
Red Warrior, per doz $18 50
*Firemen's*, per doz $15 50
*Single Bitted* (without handles)
Cuyahoga Chief, per doz $6 00
Gladstone, " " 7 75
Hubbard's " " 6 50
Hunt's " " 6 25
Lippincott's " " 6 25
Mann's " " 6 25
Pioneer " " 6 75
U. S. A. " " 7 75
Valley Forge " " 6 25
Second Quality " " 5 75
*Double Bitted (without handles):*
Lippincott's per doz $8 75
Mann's " " 8 75
Pioneer " " 9 25
U. S. A. " " 11 00
Valley Forge " " 8 75
*Ship*, Blood's " " 18 50

### BALANCES, SPRING.

Frary's 50%
Pelouze 30%

### BAGS, PAPER NAIL.

Pounds.. 3 5 10 16 20 25
Per 1,000 $1 60 1 85 2 60 3 40 3 90 4 75

### BARS, CROW.

Pinch or Wedge Point cwt. $3 60

### BEAMS—SCALE.

P. S. & W. Co 40%

### BEATERS.

*Carpet*, Rattan per doz $2 40
Raymond's Steel Wire, " " 80
Woven Wire, No. 4 " " 1 25
*Egg.*
Dover Pattern per doz. $0 70
Genuine Dover " 0 90
Mammoth Dover " 1 75
Lightning " 0 84
Lyon's (standard size) " 1 75
Whip, French " 1 35
Spiral " 0 40
Spoon " 0 40
Surprise per gro. 1 45

### BELLOWS.

*Blacksmiths'* 70&5%
*Hand*, 8 in. per doz. $ 6 85
10 in. " 8 40
*Molders'*, 12 in. per doz. 13 00

### BELLS

*Call.*
2¾ in. nickeled bell per doz. $ 1 40
2¾ in. " brass bell " 2 30
3 in. " " " " 7 25
3 in. " silver alloy bell, per doz. 16 50
4½ in. " brass bell and base per doz. 15 75
*Cow.*
Ordinary Goods 70&5%
High Grade 60&10%
Jersey 70&10%
*Door.*
Bigelow Automatic per doz. $2 50
Rotary.
3 in. bronzed iron bell " 5 25
3 in. nickeled " " " 7 50
3½ in. " " " " 9 00
*Hand.*
Hand Bells, Polished 60@60&10%
White Metal 50%
Nickel Plated 40%
Swiss 50&10%
Silver Chime 33⅓%
*Miscellaneous.*
Church and School, Steel Alloy, 50, 10 & 5%
Farm, lbs... 40 50 75 100
Each. $0 85 $1 25 $1 75 $2 40
*Miscellaneous Cont.*
Strapped Sheep per doz. $1 75
House Gong 40&5%
Sleigh, Round, Loose 40&5%

### BELTING

*Leather*—List dated Nov. 12, 1901.
Standard 75%
Eclipse 60&10%
Extra Grade 50&10%
*Rubber*—
Standard 75&5%
Amherst 65&10%
Extra 60&2½%

### BEVELS—TEE.

Stanley's, rosewood handle, new list 40&5%
Stanley' iron handle 40&5%

### BINDING—OIL CLOTH.

Zinc 75, & 10%
Brass 75%
Brass Plated 75 & 10%

### BITS.

*Auger.*
Extra Double Spur 70&5%
Ford Improved 40&10%
Irwin 40&10%
New Jenning's 50&10%
Russell Jenning's 25&7½%
Clark's Expansive 50, 10&5%
Steer's " Small
new list $22.00
Irwin Car 40&10%
Snell's Car 60&5%
" Ship 40&5%
" " Auger Pattern Car 40&5%
*Center* 40&10%
*Countersink*—
Wheeler's per doz. $1 60
American Snail Head " 0 70
" Rose " 0 80
" Flat " 0 70
Buck Bros'. Flat " 2 6
German " 0 70
*Dowel*, New Jennings 40&10%
*Gimlet*—
Standard Double Cut 50&5 50&10%
German Pattern per doz. $0 48
Gouge " 0 80
Spoon " 0 80
Countersink " 1 30
*Reamer*—
Buck Bros.' ½ Round. " 2 75
" " Square " 2 50
Standard ½ Round " 0 75
" Square " 0 75
German Octagon " 0 75
*Screw Driver*—
Round Shank " 0 48
" " extra quality " 1 40
Square Shank " 1 10

BLACKING—STOVE. (See Polish.)

### BLADES—SAW.

*Butchers'*—
Standard ¾ & 1¼ in 60&5%
Clock Spring 60&5%
Star 20%
*Hack*—
Disston's 25&5%
Griffin's 35&5%
Star 20%
*Wood*—
Jackson's per doz. $2 25
Disston's—No. 6, 16, 26 & 045, $4 20; No. 11, $6.30.
W. M. & Co.'s No. 20 per doz. $5 50

### BLOCKS.

*Snatch*—
Wooden 50&10%
Steel 40&10%
*Tackle*—
Wooden 70&5%
Steel 50, 10&5%

### BOARDS.

*Slove* 40&5%
*Wash*—
Anchor per doz. $1 60
Globe " 2 10
Banner " 2 60
Crystal " 3 15
Brass King " 3 15
Nickel Plate " 3 15
Enamel King " 3 15

### BOBS—PLUMB.

*Carpenters'*, 8½ oz. iron pr dz. $0 65
1¾ lb. " " " 1 60
2¾ lb. " " " 1 80
13 oz. lead " 3 00
6½ oz. brass " 3 30
*Mason's*, 3 lb. lead " 4 00

### BOILERS—FARM.

Profit 30&5%
Solon 35&5%

### BOLTS.

*Carriage, Machine, Etc.*
Carriage, Common, new list 65%
Machine 65&5%
Elevator 50&10%
Plow 50&5%
Stove 75&10%
Tire 75%
Wagon Box Strap 70&10%
*Mortise Door*—
Gem 50-10&5%
Ives' 50&10%
*Barrel*—
Cast 50%
Wrought 75%
" Bronzed 40%
*Flush*, Wrought, B. K 40&5%
*Spring*—
Wrought 75&10%
" Brass 75&10%
*Square*—
Cast 40%
Wrought 60-10&10%

### BORERS.

*Angular*, Miller's Falls, per doz $13 75
*Bung*, Common Ring with Handle—
Inches 1¼ 1¾ 2
Per doz $6 00 6 90 8 10
Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each 25-10&5%

### BOXES.

*Mail*, No. 5 10 20
Per doz. $3 65 10 50 13 00
*Miter*—
New Langdon 15&5%
Olmsted's 15%
Stanley's 30%
Seavey's per doz 8 00
*Twine*, Nos. 20 30 25 121
Per doz $1 50

BRACES.

Common Ball.....$1 35@1 45
Barbers' Pattern.....60&10%
Fray's Gen. Spofford's.....50&10%
" No. 66 to 146.....50&10%
P. S. & W. Co.'s Peck's Adjustable.....50-10&5%

BRACKETS.

*Hay-Rack*, Wenzelmann's No. 1, $12.50; No. 2, $13.00 per doz.
*Shelf*—
Cast Iron, Plain.....50&10%
Stamp'd's Wrought Steel.....70-10&2½%
Wire.....75-10&5%

BROILERS.

Wire.....70&10%
Crown, Self-Basting, No.80..doz. $2 90

BUCKETS.

*Pump Rubber*—
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion..... " 7 50
Victor..... " 9 50
Star..... " 5 00
IXL..... " 6 75
*Well*—
Galv'd Qts..... 8 10 12
Per doz.....$2 60 3 00 3 30
Wooden, top ear, plain, per doz 3 25
" " swivel " 4 65
" side-strap, plain " 3 35
" " swivel " 4 75

BUCKS, SAW.

Folding.....per doz $1 75

BURS, RIVETING.

Copper Burs Only.....35-10&5%
Tinners' Iron Burs Only.....70%

BUTTS.

*Cast-Iron*.....65&10%
*Wrought Brass*.....20%
*Wrought Steel Bright*—
Nos. 800, 804, 808, 810, 814 and 834.....70-10&5%
Nos. 838, 840 and 842.....75&5%
Nos. 822 and 828.....80-10&5%
*Wrought Steel, Japanned*—
Nos. 731 and 727.....70&10&5%

CALIPERS.

Double.....40&10%
Inside and Outside.....40&10%
Wing.....40&5%

CALKS.

*Logger's Boot*,(Lufkin R. Co's.).....per M $3 65
*Toe*.
Shoenberger.....per lb. 5c
Bessemer..... " 5½c
American..... " 7¼c
Swedes..... " 8¾c

CANS.

*Cheese Factory Can Stock*—
Gallons.... 15 20 30 40
Per set....$2 90 $3 15 $3 75 $4 75
*Milk Cans*—Gals.. 5 8 10
Elgin Pat., each, $ $1 75 $2 10
Iowa " 1 60 1 70 1 85
New Elgin" 1 65 1 85
New York " 2 10 2 35
*Oil*—
1 Gal. glass, Daisy....per doz. $2 35
1 " cushioned " 3 90
Star, gals..... 1 2 3
Per doz..... $1 85 $3 00 $3 90
Per doz.
Champion Faucet, 5 gallon...$ 5 65
Sterling Tilting....5 " ... 8 25
"High C" Pump...5 " ... 9 25
Eureka Pump.....5 " ... 12 25
Wood Jacket.....50-10&5%

CAPS—GUN.

See Ammunition.

CARRIERS.

*Hay*—
Myers' Imperial.....each $3 40
" Clover Leaf..... " 3 40

CARTRIDGES.

See Ammunition.

CASTERS.

*Acme*—Ball Bearing.....35%
*Bed*.....70&5%
*Common Plate*—
Brass wheel.....65&10%
Iron and porcelain wheel....70&5%
*Philadelphia Plate*.....70&5%
*Martin's*.....40-10&5%
*Payson's*.....75%
*Tucker's*—Wood and iron wheel..70%
" Rubber wheel.....65&10%

CATCHERS—GRASS

Ieder's No. 1.....per doz, $6 25
Eureka..... " 4 25
Ideal No. 4..... 50

CHAIN AND CHAINS.

*Breast Chains*—
Doubleslack.....doz. pairs $5 00
With Covert snaps " 4 75
" slide..... " 2 90
Without slide..... " 2 60
*Bright Ox Chains*—
5-16in. $6 75; ⅜in. $5 75 per 100 lbs.
*Bright Coil Chain*—
American, new list.....40%
German.....60-10&5
Triumph, new list.....30%
*Cable Coil Chain*—
Inch..... 3-16 ¼ 5-16 ⅜
Per 100 lbs....$9 75 $7 25 $5 90 $4 75
Inch..... 7-16 ½ ⅝ ¾
Per 100 lbs....$4 60 $4 50 $4 35 $4 25
*Cable Log Chain*—Advance 25c per 100 lbs. on Cable Coil.
*Cow Tie Chains*—
American 2 toggle.....40-10 & 5%
" toggle and snap, 40-10&5%
" open and closed ring.....40&5%
*Halter Chains*—
American, new list.....40%
German.....60-10&5%
Niagara, new list.....40&5
Triumph " .....30%
*Jack Chain*—
Brass.....50-10&5%
Iron.....50-10&5%
*Picture Chains*—
Light Brass, 2 ft.....per doz. 63c
Heavy " 3 " ..... " 75c
*Pump Chain*—Galvanized per 100 lbs.....$4 45
*Safety Chain*—Brass.....60&10%
*Stretcher Chains*—
5-16 in., $7.75—⅜ in., $7.00 per 100 lbs.
*Tie-Out Chains*—Browns.....70&10%
*Trace Chains*—Western Standard—
6½—6-2.....per pair 30c
6½—8-2..... " 34c
6½—8-3..... " 33c
6½—10-2..... " 39c
7 —10-2..... " 44c
Add 2c per pair for Hooks.
" 2c " for Twist Link.
*Wagon Stay Chains*—
Inch ¼ 5-16 ⅜
Per 100 lbs. $6.50 $6.00 $5.25
*Well Chains*—
With Swivel.....per doz. 95c
Without " ..... " 80c

CHALK-CARPENTERS'.

Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l Crayon..... " 5½c
D. M. Steward Mfg. Co.
Metal Workers' Crayons, .....gr.$2.50 } Case lots 20%
Soapstone Pencils, round flat or square.....gr.$1.50
Rolling Mill Crayons.gr.$2.50
Railroad Crayons (composition) gr.$2.00

CHARCOAL.

In barrels.....per bu. 26c

CHECKS-DOOR.

Blount..... 30%
Blum-Jap'd, $6.25; Brzd., doz... $7.00
Columbia.....50, 10&5%

CHISELS.

*Box*—
Inches..... 10 12 14
Round...per doz. $2.10 $2.25 $2.75
Flat.....per doz. 2.85 3.60 4.20
*Cold*—
Good quality.....per lb. 12@ 20c
U.S.A.,extra quality..per lb. 28c
*Socket, Framing and Firmer*—
Barton's..... 20%
P. S. & W. Co's..... 70%
For beveled back, add..per doz..... 60c
*Tanged, Firmer*—
P. S. & W. Co's.....35&5%
With Handles add... per doz. 60c
*Choppers, Enterprise Meat*—
No. 12.....$2 75
No. 22..... 4 50

CHUCKS-DRILL.

Standard Tool Co.'s.....40%
Goodell's, for Goodell's Screw Drivers.....per doz. $6.25
Yankee, for Yankee Screw Drivers..... 5.00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each..... $3.85 4.10 4.30
Belle, Barrel..... 70%
Common Dash, Gal.... 4 5 7
Per doz..... $6.50 7.25 7.75
Union, Gal..... 5 7 10
Each..... $3.40 3.65 4.65

CLAMPS

*Adjustable*—Martin's..... 40%
*Carpenters'*—Steel Bar..... 50%
*Carriage Makers'*—P. S. & W. Co.'s.....40, 10&5%
*Hose*—
Sherman's, brass, ¾ in., .....per doz. 35c
Double, brass, ¾ in...per doz. 65c
*Saw Filers*—
Disston's list, $30.00..... 30%
Stearn's, No. 0, $3.50, No. 1, $11.50, No. 3, $5.50 doz.
Wentworth's..... 40%

CLAWS-TACK.

Cast, wood hdle...per doz., 45@ 60c
Forged steel, wood handle .....per doz. 80c
Solid Steel.....per doz. $1.60
Giant.....per doz. .60

CLEANERS.

*Pot*—Wire.....per doz. $0.45
*Side-Walk*—Steel..... per doz. 3.15
*Window*—
Peerless.....50, 10&5%
XLCR.....65&10%

CLEAVERS.

*Butchers'*—F. R. Plumb's.....35&5%
*Family*—Ajax, In..... 6 7 8
Per doz.....$5.50 5.75 6.25

CLEVISES.

Malleable.....per lb. 4¼c

CLIPS.

*Axle*.....65&5%
*Damper*—
Standard.....per doz. $0.55
Troy..... " .38
*Hame*..... " .30

CLOTH.

*Emery*—
Ajax.....50&10%
B. & A.....50%
*Hardware Wire*—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1.85
9 to 12 " " " " 2.15
2 to 8 " galv, " " 2.70
7 and 8 " " " " 3.25
An extra charge is made for 50 ft. lengths, and a still further advance for smaller pieces.
*Screen Wire*—
12 mesh, painted, per 100 sq.ft. $1.10
14 " " " " 1.85

COCKS--BRASS.

Compression Bibb.....60&5%
" Lock.....60%
Lever Bibb.....60%
Liquor.....60%
Racking.....60%

COFFEE MILLS.

Enter. Mfg. Co., list Jan 17, '93...25%
Parker's.....50%
Arcade.....60&10%

COLLARS--STOVE PIPE.

Inches 5 6 7
*Plain Tin*....per gr.$2.50 $2.80 $3 75
*Japanned Tin*, " 3.90 4.20 5.40
*Lacquered Brass*" 3.30 3.60 4.80

COMBS--CURRY.

Nos. 000 20 321 330 417 416
Per doz.$0.32 .80 1.00 .95 .80 1.00
Nos. 531 533 530 535 545 390
Per doz $0.96 1.20 1.10 1.65 1.40 1.30

COMPASSES.

*Carpenter's*.....65&10%
*Pencil*--Faber's.....per doz.$1.00

COOLERS--WATER.

*Galvanized Lined*—Lever Faucet.
Gal. 2 3 4 6 8
Each $1.35 1.65 2.00 2.35 2.95
*Galvanized Lined*—Telegraph Faucet
Gal. 2 3 4 6 8 10 15
Ea$1.65 2.00 2.35 2.65 3.30 3.65 4.90
*Porcelain Lined*—
Gal. 3 4 5 6 7 8 10
Ea$4.50 5.75 7.00 7.75 8.60 10.40 12.25

COPPER—SEE METALS.

COPPERS.

*Soldering*--1 to 2 lb.....per lb. 25@29c
3 lb. and larger..... " 23c

CORD.

*Picture*--White Wire--List October 1900.....80&10%
*Sash*--
Baltic Braided Flax...per lb. 18½c
India Hemp, cable laid " 13 c
" " hawser " " 12 c
" " plain " " 13½c
Italian " cable " " 21½c
Russian " " " " 17 c
Samson, white " 31½c
" spot " 30½c
Silver Lake, white " 24½c
" " drab " 31½c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS--SPRING.

5-16 in. and smaller..... .....80&5%
⅜-in. and larger.....75%

COUPLINGS--HOSE.

Brass.....per doz. $1.00
Brass Plated..... " 85

COVERS, WAGON--SEE TENTS.

CRADLES--GRAIN.

Morgan's Grapevine ..per doz. $22.00

CRAYONS--SEE CHALK.

CROOKS--SHEPHERDS'.

American Pattern .....per doz. $6 75
Montana " ..... " 8 00
Scotland " ..... " 8 00

CROW BARS.

Pinch or Wedge Point....per lb. 3½c

CUTTERS.

*Meat*--
Enterprise Nos. 5, 10, 12, 22, 32, and 42.....25%
No. 100, list, $18.00.....40&10%
Nos. 2 and 4.....35%
Ideal.....per doz. $9.75
Universal....No. 1 2 3
Per doz.....$10.75 $13.00 $18.00
*Pipe*-Stanwoods No. 1 2 3
Each.....$ .85 1.50 4.00
*Slaw and Crout*--
3-knife Crout.....per doz. $9.25
1 " Slaw..... " 1.35
2 " " ..... " 2.00
*Washer*..... " 7.75

DAMPERS--STOVE PIPE.

Standard..... 50&10%
American..... 50&5%

DIES--STOCKS AND

Discount..... .. 40%

DIGGERS--POST HOLE.

Atlas.....per doz. $8.50
Eagle..... " 6.25
Eureka..... " 7.00
Hercules..... " 10.75
Ryan's..... " 16.50
See also Augers—Post Hole.

DIVIDERS.

Wing.....70&5%
Extension Wing.....35&5%

DOORS--SCREEN.

⅜ in. 4 panel painted per doz. $ 6.75
1⅛ " " " 7.25
1⅛ in. 4 panel natural pine, fancy, per doz..... 11.25

DOOR HANGERS—BARN.

Single Flange, D. B. Rail, .....per 100 ft. 1 60
Novelty Check Back, ..... 3 in 4 in 5 in 6 in
Per doz. pairs, $2.60 $3.90 $4.95 $6.25

DRILLS.

*Bit Stock*.....60%@65&5%
*Blacksmith's Twist*.....60%
*Breast*--
Common.....each, $2.25
Millers' Falls..... " 2.10
*Hand*--
Goodell's Automatic--per doz.
No. 01 No. 03 No. 3 No. 20
$7.75 $12.50 $14.25 $11.00
Goodell's Single Gear per doz. $16.00
Millers' Falls " " " 12.50
" " Double " " 15.00
*Reciprocating*—
Goodells'.....per doz. $17 00
*Bit Stock*.
Standard List....60&5%@60%@10%

DRIVERS--SCREW.

Standard.....65&10%
Ajax.....70&5%
Champion.....50%
" Pattern.....75&5%
Clark's Interchangeable.. ..... 33⅓%
Reed's Lightning.....50%
Goodell's Spiral.....50&10&5%
Yankee Ratchet.....50%
" " Spiral.....50&10&5%

ELBOWS.

*Conductor*.....60%
*Adjustable Stove*—In. 5 6 7
Smooth....per doz. $0.98 0.98 1.40
Plan'd..... " 2.35 2.35 3.15
*Corrugated Stove*—In. 5 6 7
Smooth.....per doz. $0.98 .98 1.40
Pol'd..... " 1.75 1.75 2.70
Plan'd..... " 2 00 2.00 3.00
*Four-Piece Stove*—In. 5 6 7
Smooth....per doz. $0.63 .63 1.00
Pol'd..... " 1.15 1.15 1.60
Plan'd..... " 1.80 1.80 2.60
*"O.H." Corrugated*--In. 5 6 7
Common...per doz. 1.08 $1.20 $1.75
Smooth..... " 1.25 1.45 2.10
Polished.... " 2.10 2.50 3.15
Planished... " 2.90 3.50 4.35

EMERY--TURKISH.

Size.....5-lb. pkgs. ½ kegs, kegs.
No. 60 to 150, ℔ lb. 6½c 4½c 4½c
Flour.... " 5½c 3½c 3½c

ENAMEL--IRON.

English, ½-pt. cans...per doz. $1.50
Nubian, " " ... " 1.80
O. V. B., " " ... " 1.25
Peerless..... 1 50

EXTRACTORS--PIG.

See Forceps, Pig.

EYES.

*Bright Wire Screw*—See Goods, B.W.
*Drifting Pick*.....60&10%
*Hooks and*--
Brass.....60&5%
Iron.....65&10%

FASTENERS, STORM SASH.

Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FASTENERS, BLIND.

Zimmerman's.....Net

FAUCETS.

*Angle Plug*.....per doz. $0 84
*Brass*--Andrew's.....60%
Petroleum.....60%
*Wood*--Cedar.....40&50%
Cork Lined.....60%
Metal Key.....65&5%
*Measuring*--Enterprise.....35&5%
See also Cocks.

FILES AND RASPS

Arcade.....75&5%
Black Diamond.....70&10%
Disston's.....75&5%
Great Western.....75&5%
Keystone Mill.....80&20%
Kearney & Foote.....75&5%
New American.....75&10&5%
Nicholson's.....70&10%
Royal Mill.....80@20%
N. S. A.....70&10&5%

FORCEPS—PIG

Barber's.....per doz., $7 25
Superior..... " 4 75
Whisson's Imp..... " 6 00

FORKS

*Barley*—
Steel.....66⅔, 10&5%
Wood, 4 tines, $5.25; 6 tines.$6.25 doz
*Coal*.....70, 10&2½%
*Coke*.....70, 10&2½%
*Cottonseed*.....70, 10&2½%
*Hay*—
Diamond, 2 tine.....65, 10&5%
" 3 " .....60, 7½, 10&5%
" 4 " .....66⅔, 10&5%
Golden Eagle, tine 60,7½,10,10&5%
" " " ..66⅔,10,10&5%
*Header*—
Diamond, 2 tine.....67½&10&5%
" 3 " .....60, 20, 10&5%
" 4 " .....66⅔&10&5%
Golden Eagle, 4 tine.....10&10&5%
*Manure*--
Diamond.....60, 20, 10&5%
Golden Eagle.....60, 20, 20&5%
*Ore*.....70&10%

FORKS—CONTINUED.

*Potato—*
Digging.....65&10&5%
Scoop.....70&10%
*Spading—*
Diamond.....70, 5, 10&5%
Golden Eagle.....70, 5, 10, 10&5%
*Hack Saw—* FRAMES
Crown.....per doz., $ 8 75
Miller's Falls..... " 10 00
Star..... " 2 85

FREEZERS—ICE CREAM

*Arctic*—Qts... 1 2 3 4 6
Each.....$1 10 1 30 1 50 1 75 2 30
Qts..... 8 10 12 15
Each.....$2 85 3 75 4 50 5 20
*White Mountain*, with Crank—
Qts..... 1 2 3 4 6
Each.....$1 20 1 65 1 90 2 10 2 70
Qts..... 8 10 12 15
Each.....$3 60 4 60 5 90 7 00

GATES.

*Molasses and Oil.*
Perfection.....40&10&5%
Stebbin's.....75&10&5%

GAUGES.

*Butt and Rabbet.*
Stanley R. & L. Co.'s . 20&10&2½%
*Cream Pail*, Fairmont, per doz..$3 75
*Marking, Mortise, etc.*
.....50&10%@50&10&5%
*Saw*—Atkin's agle. 55c, dbl. 80c pr doz.
*Wire.*
Disston's.....25%
P. S. & W. Co.'s.....20%

GIMLETS.

Discount.....46@40&10%

GLASS—WINDOW.

All sizes, single strength.....80%
" double strength.....80%

GLASSES—LEVEL.

Stanley R. & L. Co.....50&5%

*Bulk.* GLUE

B Amber.....per lb 9¾c
A White.....per lb 12½c
H. S. Amber.....per lb 17 c
*Liquid.*
Eagle.....40 %
LePage's—
List "A".....37½%
List "B".....33⅓%
List "C".....25 %

GOODS.

*Bright Wire*.....65&5%

GREASE, AXLE.

*Wood Boxes.*
Diamond.....per gr. $5.40
Frazer's..... 9.25
Hub Lightning..... 5.25
Paragon..... 6.75
*Wood Pails.*
Frazer's, 15 lb. 78c, 25 lb. $1.30 each.
Hub Lightning, 15 lb. 52c, 25 lb. 65c each.
*Tin Cans.*
1 lb. Frazer's carriage, pr. doz. $1.20
1½ lb. " wagon . " 1.30
3 lb. " " " 2.40
5 lb. " " " 3.50

GRIDDLES

*Soapstone*.....40&5%

GRINDSTONES

*Family*—In..... 7 8 9
Per doz.....$7 75 8 75 10 00
*Loose.*
Per ton.....$20 00@$21 00
*Mounted—*
Ball Bearing..... 1 2 3
Each.....$3 10 2 90 2 75
Common Bearing.. 1 2 3
Each.....$2 85 2 65 2 50
*Schofield's—*
Auto.....each, $3 30
Bitreadie..... " 3 10

HAFTS—AWL

*Brad*—Common.....per doz., $0.18
*Peg—*
Common..... " 21
Patent, plain top..... " 46
" leather top .. " 52
*Sewing—*
Common..... " 31
Patent..... " 52

HALTERS

Jute Rope.....per doz., $0 80
Sisal Rope..... " 1 95
Web..... " 2 10
Leather, rope tie..... " 6 25
" leather tie... " 8 25

HAMMERS—HANDLED

*Blacksmiths' Hand*
Maydole's.....40&10%
Plumb's.....50&10&5%
*Engineers'—*
Maydole's.....40&10%
Plumb's Oil Finish.....60%
" Polished.....50 10&5%
*Farriers'.*
Maydole's.....35&5%
Plumb's.....40&5%
*Machinists'.*
Maydole's.....40&10%
Plumb's.....50&10&5%
*Nail.*
Ajax.....per doz $5 75
Calumet..... " 3 40
Cast.....per doz $1 10@$1 50
Maydole's.....30&7½%
Plumb's.....40&5%
Vulcan.....35&5%
*Riveting.*
Maydole's.....35&5%
Plumb's.....40&5%
*Shoe.* Plumb's.....30&5%
*Tack.*
All Iron.....per doz $0 32
Pol'd Iron, Hickory hdl " 0 48
Mall. Iron, Inlaid..... " 1 50
Magnetic 1 2 3
Per doz..... 70c 80c 95c
Magazine.....per doz $4 75

HAMMERS—HEAVY.

*Heavy Hammers and Sledges.*
Under 5 lbs.....70&10%
5 lbs. and over.....75%
*Masons'*—Single & Double Face..75%

*Auger.* HANDLES.

Common Ass'd.....per doz $0 36
Peck's Adjustable.... " 2 10
Roger's " .... " 4 15
Ives' " ....per set 1 25
*Axe*.....40&5@50%
*Chisel.*
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c: Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted .....per doz 24c
*Coal Pick*.....40&10%
*Drifting Pick*.....40&10&5%
*File*, assorted 13c. large 16c per doz.
*Hammer.*
Adze Eye.....per doz 35c
Blacksmiths'.....per doz 35c@55c
Machinists'..... " 38c@60c
*Hatchet*.....per doz 36c
*Hay and Manure Fork*..50&5%@60%
*Hoe and Rake*.....50&5%
*Saw*, Plain 72c, Varnished 68c per dz.
*Screw Driver*, Assorted 42c, Large 48c per doz.
*Shovel and Spade*.....50&5%

HANGERS

*Barn Door—*
King.....per doz. prs., 5 00
Monarch.....60%
"Never Jump" Hinge.....50%
Peerless.....60%
Perfection.....60&10%
Phœnix.....60&10%
Prouty .....per doz. prs., $5 50
Rival..... " " 3 90
Superb ..... " " 6 25
Safety Flexible " " 7 50
Wagner's Adjustable.....60@10%
Warehouse Anti-Friction.....50%
*Parlor Door—*
Acme.....per set $3 75
Ives' Improved..... " 3 50
Lane's Standard..... " 3 50
" New Model.... " 3 80
.....
*Eave Trough—*
Baker's.....per gr., $2 25
Imperial.....10%
Wire.....25%

HASPS.

Hinge, Wrought.....50, 25&10%
With Staples—See Staples.

HATCHETS.

Ajax.....40&10&5%
Blood's.....40&10%
Cast Claw.....per doz $1 50@$1 75
Cast Shingling.... " ..... 1 20
Duffy's Barrel.....per doz 17 50
Germantown.....25&5%
Hammond's.....40%
Plumb's.....40&10&5%
Plumb's Warehouse.....40%
Roger's Ideal.....per doz $5 25
Underhill's Star Lath.....40%
B. A.....30&10%

HAY RACK BRACKETS.

Wenzlemann's No. 1, per doz...$12 60
" No. 2, " ... 13 20

HINGES.

*Blind.*
Clark's Gravity, 1 2 3
Per doz sets.....74c $1 80 $3 50
Parker's.....70%
Shepherd's Noiseless, for Wood casing.....doz 95c
Stanley's Wrought..per dz sets 84c
*Gate.*
Clark's, 1 2 3
Hgs & Ltchs, dz.. $2 20 $2 25 $3 60
Hinges Only, " .. 1 60 1 70
Latchs Only, " .. 0 65 0 70
Knuckle.....per doz prs $6 25
Lead's..... " sets 6 50
Superior..... " prs 9 25
*Spring.*
American.....25%
Bommer Bros. Ball B'rng Floor 40%
Bommer Bros. Spring Hinges 40%
Chicago.....25&5%
Clover Leaf.....per gro $6 75
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable,....per gro $10 50
New Idea..... " 8 75
Oxford.....30%
*Wrought Iron.*
Light Strap Hinges.....70&25&10%
Heavy Strap Hinges.75, 10, 25 & 10%
Light T Hinges.....66⅔, 25 & 10%
Heavy T Hinges .....60, 5, 25 & 10%
Extra Heavy T Hinges .75, 25 & 10%
Cor. Heavy Strap.....75, 10, 25 &10%
Cor. Ex. Heavy T.....75, 25 & 10%
*Screw Hook and Strap.*
6 to 12in.....per 100 lbs. $3.75
14 to 20in..... " " 5.50
22 to 36in..... " " 8.25
*Screw Hook and Eye.*
⅝ to 1in.....per 100 lbs. $6.50
⅞in..... " " 8.00
⅞in..... " 10.00

HOES.

Garden.....75&10&5%
Grub.....65&5%
Hazel.....per doz $6 25
Ladies' and Boys'.....70, 10, 5, 10&5%
Mortar.....75, 7½, 10&5%
Planter's Eye..... 60&10&2½%
Weed.....70, 10, 10&5½%

HOOKS.

*And Eyes.*
Brass.....50&10&5%
Iron.....65&10%
*Awning*.....per gro $1 50
*Belt*.....75&5%
*Bench*—See Stops, Bench.
*Box*, In. 6 8 10 12
Doz.. $1 25 $1 60 $1 70 $2 25
Hunnson & Beckley's..pr dz $2 40
(See Goods, Bright Wire.)
*Bush.*
Common Axe Handle
.....per doz $7 00@$8 50
Hamilton Pattern.....per doz $7 25
*Chain*—In. ¼&5-16 ⅜ 7-16 ½
Per 100.. $8 25 $9 75 $11 50 $12 00
*Clothes Line.*
Japanned.....per doz 21c@22c
Galvanized..... " 35c
*Coat and Hat.*
Cast Iron.....per gro 72c@$1 00
Gem Wire.....65%
*Conductor.*
Malleable.....50&10%@50&10&5%
Wrought.....40&10%@50%
*Corn.*
Common, unpolished, per doz. $1 30
" polished... " 1 60
"Cut Easy," serrated, per doz. 2 00
*Gale.*—See Goods, Bright Wire.
*Grass.*
Common, Nos. 2 3 4
Per doz..... $1 60 $1 65 $1 70
German .....per doz $1 85
Little Giant..... " 3 10
Wood's..... " 1 30
*Hammock.*
Common..... " 21c
With Plate..... " 36c
With Screw..... " 36c
Piggot's..... " $1 05
*Lambrequin or Drapery*...per gro 21c
*Picture*.....50%@50&10%
*Potato and Manure*.....70&10&7½%
*Screw*, Brass.....80&5%
(See Goods, Bright Wire.)
*Seat Spring*.....per lb 5½c

HOOPS—TUB.

Ever Ready..... per case $1 65

HOSE—GARDEN.

Ply 3 4 5 6 8
*Black*, pr ft. 7½c 8½c 9½c 10½c 12½c
*Cotton*, 3 ply.....per ft 6½c
*Red*, 3 ply..... " 7½c

HUSKERS.

*Boss.*
Nos. E A B P PX
Dz.$1 85 $2 00 $1 95 Gr.$5 90 $5 40
Nos.2000 3000 4000 O ⊕X
Gr.$3 10 $6 75 Dz.$1 15 $3 25 $1 75
*Brinkerhoff's*.....per gro 14 50
*Common Sense*.....per doz 1 60
*Harrington*.....per gro 4 50
*Ideal*—Nos. 102 101 100
Per doz..... $1 60 $3 00 $3 15
*Johnson's*.....per gro 7 75
*Tyler's* " 8 40
*Vaughan's* " 2 20

IRON.

See Metals—First column.

IRONS.

*Curling.*
Common.....per doz 22c@48c
Princess.....per doz $0 60
Yale..... " 0 84
Oxford..... " 1 19
Ruby..... " 1 60
Tourist, Folding..... " 0 90
*Pinking*..... " 0 60
*Plane.*
Wood Bench.....20&5%
Stanley R. & L. Co. (new list)25&5%
*Sad.*
Charcoal.....per doz $11 25
Common, Polished, per 100 lbs 3 50
" Nickel Plated, " 4 75
Chinese Polishing.....per doz 7 25
Laundry, No. 1, $5 75; No. 2, $6 25 per doz.
Mrs. Pott's.
No. 50 J, Enterprise...per set 77c
No. 55 J, " " " 74c
No. 50 T, " " " 80c
No. 55 T, " " " 77c
No. 50, Howells..... " 77c
No. 55, " ..... " 74c
Tailors' Sad.....per lb 4¼c
" Geese..... " 4¼c
*Tuyere.*
Single Duck Nest.....per doz $5 25
Double " " ..... " 6 25
Sutton.....each 2 00

JACKS.

*Locomotive*.....75&5%
*Wagon.*
Meeker's.....per doz $11 25
Miller's No. 2..... " 7 75
T., M. & S..... " 9 00
Winner..... " 7 75

KETTLES.

Brass.....30%
Caldron.....50%
Copper.....per lb 26c
Maslin.....65&10%
Sugar.....50&10&5%

KNIVES.

*Beet Topping.*
Clyde, 9-in. Scimiter Blade.dz $4 25
" 12-in. Straight " .dz 2 50
*Cooper's Hoop*.....15%
*Corn.*
Acorn.....per doz $2 10
Ajax..... " 2 25
Clipper, Light, $1 60; Heavy, $1 75 per doz.
Disston's.....per doz $2 85
Easy (attached to foot) " 7 75
Greenleaf's..... " 3 60
*Drawing.*
Standard.....70%
Adjustable.....30%
Barton's Carpenters'.....10&5%
" Folding Handle.....25&5%
*Hay.*
American, Sickle Edge...doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 25
Lightn'g, Holt's Genuine " 6 25
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point. " 8 75
*Hedge.*
Ajax. Heavy, $5 75; Ex. Heavy, $7 75 per doz.
*Mincing.*
Common, Single .....per doz 48c
" Double..... " 65c
Streeter, 4 Blade, $1 30; 6 Blade, $1 90 per doz.
*Putty.*
Common.....per doz 84c
Goodell's.....per doz $1 20@$1 80
Russell's..... " 1 75@ 2 25

KNOBS.

*Base*, 2½-in. Maple, Rubber Tip,
..... per gro $1 00
*Door*, Mineral.....per doz 0 80
Porcelain..... " 0 90
Jet..... " 0 85
*Picture*.....60&10&5%

LADDERS.

*Common Long*.....per ft 8½@13c
*Extension*.....per ft 10½c
*Step.*
Common..... " 6c
" With Shelf, add 10c.
I X L.....per ft 19c
Miller's Household. per ft 13c@15c

LANTERNS.

*Bull's Eye Police.*
3-in Flash Light.....per doz $6 00
2¾-in Regular..... " 4 00
2-in Regular..... " 5 00
*Tubular*, Berger.....40&10&5%

LEADERS—CATTLE.

Nos. 1 2 3
Per doz.... $0 70 $0 85 $3 75

LEATHER—LACE.

*Cut*.....50&5%
*Sides*, Ex. Quality.....per sq ft 21c

LEATHERS—PUMP.

Valve and Plunger.....50%

LIFTERS.

*Stove Cover.*
Japanned.....per gro $2 75
Coppered..... " 3 00
Alaska..... " 2 50
Chilkoot..... " 4 75
Devore's..... " 5 50
Zero..... " 3 90
*Transom*, Payson's.....70&10%

LINES.

*Chalk*, Twisted in 20-ft hanks.
Nos. 15 14 13 12 11
Per doz.. 10c 12c 17c 22c 28c
Twisted in 50-ft balls.
Nos. 1 2 3 4
Per doz.... 24c 30c 36c 44c
Braided in 20-ft hanks.
Nos. 0 1 2
Per doz..... 23c 26c 32c
Masons', in 100-ft hanks...doz $1 00
*Clothes.*
60-ft Jute.....per doz $0 90
75-ft " ..... " 1 00
60-ft Sisal ..... " 1 50
72-ft " ..... " 2 00
60-ft Cotton..... " 1 25
50-ft Braided Cotton.....90%

LINING—STOVE.

In Bricks.....per crate 42c

MACHINES.

| *Boring* | Without Augers. | With Augers. |
|---|---|---|
| Ajax .....per doz | $5 25 | $6 75 |
| Angular..... " | 3 25 | 5 00 |
| Boss..... " | 4 50 | 5 |
| Upright..... " | 2 90 | 4 |

*Leal'ser Riveting.*
Chicago, Pomeroy ....per doz $9 75
Excelsior..... " 2 50
Handy..... " 2 10
Little Giant..... " 3 10
Pony, Pomeroy ..... " 3 00
*Washing.*
Boss.
Per doz... $54 00 $60 00 $66 00 $66 00
Globe, No. 1.....per doz $51 00
Horton Rotary..... " 54 00
O K Rotary ..... " 58 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Western Square, No. 2, $26 50; No 3, $28 50 per doz.

MALLETS.

*Carpenters'.*

| Fibre Head, Small. | Med. | Large. |
|---|---|---|
| Per doz..... $5 00 | $5 75 | $6 75 |

Round Hickory.....per doz $1 75
" Lignumvitæ..... " 2 75
Square Hickory..... " 1 75
" Lignumvitæ .. " 3 25
*Tinners'.*
Applewood ..... " 1 65
Hickory..... " 0 90
Hickory Sheet Iron. "

*Door.* MATS.
National Rigid ..... 65&5%
Queen Flexible ..... 50%
*Stove.*
Augite Asbestos ..... per doz $0 25
Crown " ..... " 0 30
Wire Covered Asbestos, Ex. Heavy ..... per doz 1 00
MATTOCKS.
Extra ..... 65&5%
Hunt's ..... 40&5%
*Post.* MAULS.
Iron, lbs. 10 12 16 18 20
Per doz. $3 90 $4 60 $5 60 6 15 $7 10
Wood face, lbs. 10 11 12
Per doz ..... $4 75 $5 00 $5 25
*Wood Choppers'.*
Lake Super'r & Oregon Pat. 70&10%
MEASURES.
½ pk 1 pk ½ bu
Galvanized .. per dz $3 75
Japanned .... " $1 60 2 35 $3 10
Iron Bound. " 1 40 1 70 2 00
*Babbitt.* METAL.
Alm ..... per lb 8¾c
Best ..... " 23c
Common, No. 4 ..... " 6¾c
Copper Mixed ..... " 18½c
Magnolia Metal ..... " 19c
Tony ..... " 10½c
See Metals—In first column.
MICA.
First Quality ..... 40, 10&5%
Second Quality ..... 60%
MILLS—COFFEE.
Enterprise ..... 25&5%
National ..... 30%
Parker ..... 50&10% @60%
MOPS.
*Eris* ..... per doz $3 15
*Handled Cotton.*
Lbs. ¾ 1 1¼ 2
Per doz .. $1 65 $2 10 $2 25 $2 95
MOWERS—LAWN.
*Ball-Bearing.*
In. 15 17 19 21
Each ..... $7 00 $7 60 $8 25 $8 90
*Champion.*
In. 12 14 16 18 20
Ea. $2 10 $2 15 $2 15 $2 20 $2 35
*Champion, High Chief.*
In. 16 18 20
Each ..... $3 40 $3 70 $4 00
*Cheap Grades.*
In. 12 14 16 18
Each ..... $1 90 $1 95 $1 95 $2 10
*Clipper* ..... 50&10&10%
*Girard*, in. 14 16
Each ..... $2 60 $2 80
*Philadelphia.*
All Styles Except A & E ..... 70&5%
Style A ..... 60&5%
Style E, High Wheel ..... 70, 10&5%
Drevels ..... 50%
All Day ..... Net Price
*Horse.* MUZZLES.
Nos. 1 2 3 4 5
Doz. $0 30 $0 50 $0 55 $0 70 $1 00
*Horse Shoe.* NAILS.
Aussible ..... 50%
Capewell ..... 10%
Perfect ..... 40&5%
Putnam ..... 35½%
Star ..... 35%
*Picture.*
Brass Head ..... 40&10%
Judd's ..... 40&10%
*Brads* ..... 80&10&10%
*Wire Nails*—Small lots ..... $2.15
Car load lots ..... 1.95
NETTING—POULTRY.
Galvanized Before Weaving .80&20
" After Weaving ... 80&15
Cut Pieces ..... 65&5%
NIPPERS.
*End Cutting.*
P. S. & W. Co. ..... 40&5%
Stubb's Pattern ..... 40&10&5%
*Hoof.*
Keller's ..... 40&5%
P. S. & W. Co. ..... 40&10%
V. & B ..... 35%
*Hose.* NOZZLES.
Genuine Boston ..... per doz $3 40
Genuine Gem ..... " 3 60
Magic ..... " 3 60
NUTS—HOT PRESSED.
*Square Blank.*
In. ½ ⅝ ¾ ⅞ 1
Lb. 9½c 6½c 4⅝c 4½c 4c 3⅝c
*Square Tapped.*
In. ½ ⅝ ¾ ⅞ 1
Lb. 12½c 10⅝c 6½c 5½c 5¼c
OILS.
Linseed, Pure boiled ..... per gal 47c
" " raw ..... " 46c
OILERS.
Chase Pattern.
Brass and Copper ..... 35&5%
Zinc ..... 50&10&5%
*Engineers'.*
Cannon ..... 40&5%
Steel ..... 60&10&5%
Tin ..... per doz $3 50@$8 00
*Machine.*
Ajax ..... per doz $0 80
Copper Plated Steel ... " 1 50
Malleable Iron ..... 40&10&5%
Tin ..... per doz 50c@65c
OPENERS.
*Box*, in. 10 12 14
Flat ... per doz $2 85 $3 60 $4 1[illegible]
Round .. " 2 10 2 25 2 [illegible]
*Can.*
American ..... per doz $0 25
Delmonico ..... " 1 50
Never Slip ..... " 0 65
Perfect ..... " 1 25
Tip Top ..... " 0 84
*Crate*, V. & B ..... " 5 75
OUTFITS—COBBLING.
Combination ..... per doz $11 50
Economical ..... " 4 80
Family ..... " 10 00
PADLOCKS.
Standard Wrought ..... 70&10&5%
Champion ..... 50%
Eureka ..... 40&10&5%
Yale ..... 60&5%
*Cream.* PAILS.
14-qt., Without Ga .... per doz $3 00
20-qt., " " .... " 3 50
30-qt., With Gauge .... " 5 00
*Sap*, 10-qt., Galvanized, $1 85; 12-qt., Galvanized, $2 20 per doz.
*Stock*, Galvanized.
Quarts. 14 16 18 20
Per doz ... $3 75 $4 60 $4 65 $5 25
*Water*, Galvd, qts. 10 12 14
Per doz ..... $3 00 $3 30 $3 60
*Wood.*
Cable, 2-Hoop, $1 70; 3-Hoop, $1 90 per doz.
Cedar, 3-Hoop, $3 50 per doz.
Standard, 2-Hoop, $1 55; 3-Hoop, $1 75 per doz.
PANS.
*Dripping* ..... 50&10&5%
*Fry*, Common ..... 60&10&5%
Acme ..... 60&5%
*Roasting.*
Brownie ..... Each 30c@37c
L. & H ..... " 55c@80c
*Building.* PAPER.
Plain ..... per 100 lbs $1 10
Tarred ..... " 1 25
Tarred Felt ..... " 1 75
Diamond A, Red Rosin .pr roll 0 63
Leader, Red Rosin ..... " 0 48
*Sand and Emery.*
Ajax ..... 50&10%
B. & A ..... 50%
*Wrapping.*
Grecian Express ..... per lb 3½c
Rag ..... " 2c
*Apple.* PARERS.
Bay State ..... per doz $12 00
Reading ..... " 6 75
Turntable ..... " 6 00
White Mountain ..... " 5 25
*Potato.*
Goodsell's Saratoga .. per doz. $6 50
White Mountain ..... " 6 00
PICKS
Drifting and Poll Picks ..... 60&10%
Extra Railroad ..... 65&5%
Surface ..... 65&5%
PINCHERS.
Carpenters', wrt. iron, pol. steel jaws ..... 30%
Blacksmiths' ..... 50%
P. S. & W ..... 40&10&5%
*Clothes.* PINS.
Common ..... per gr. . $0 12
Hoyt's ..... " .. 30
U. S ..... " .. 70
*Picket.*
Fluted ..... per doz .. $0 72
Round ..... " .. 1 55
Spiral ..... " .. 1 90
PIPE.

| *Conductor.* | Nested | Not nested |
|---|---|---|
| Eastern ..... | 75&7½% | 75&2½% |
| Central ..... | 75&2½% | 70&12½% |
| Southwst'n | 65-10&10% | 65-10&5% |
| Mo. River .... | 75&2½% | 80&2½% |
| Southern .... | 70&7½% | 75-10&5% |

*Lead.*
Full coils ..... per lb .. $0 5¾
Cut " ..... " .. 06
*Stove.*

| Acme—In. | 5 | 6 | 7 |
|---|---|---|---|
| Smooth, per jt. | 11⅛c | 11⅛c | 13⅛c |
| Planished, " | .22c | 23c | 42c |
| Peerless—Smooth | .9⅛c | 9½c | 12c |
| Polished. | 16c | 18⅛c | 22c |
| Planished. | .29c | 31c | 40c |

Made-up—In. 5 6 7
Smooth ..... 11⅛c 11⅛c 14⅛c
7 to 6 in. Smooth Tapers, pr jt .. 15c
6 in, Smooth T's ..... " .. 20c
7 to 6 in. Planished Tapers ..... 45c
*Wrought Iron Gas Pipe.*
⅜-in., black ..... discount, 60%
½ " ..... " 63%
¾-in. to 4-in., black .... " 69%
4½ " 6 " .... " 66%
7 " 12 " .... " 61%
¾ " galvanized " 48%
½ " " " 50%
¾ " to 4 " " 56%
4½ " " 6 " " 52½%
7 " " 12 " " 50%
PLANES.
Ohio ..... 60&5%
Stanley Planes, new list .. 30% @30&5%
Bailey Planes ..... 25%
Sandusky ..... 25%
*Corn.* PLANTERS.
Impro eclipse ... p z .. $7 75
Monitor ..... " .. 7 25
Triumph ..... " .. 5 75
*Potato*
Acme ..... per doz .. $5 75
Challenge ..... " .. 10 75
PLATES—TIN.
See Metals in Column 1.
PLIERS.

| *Button's*—In. | 4½ | 6 | 8 | 10 |
|---|---|---|---|---|
| Per doz ..... | $2.50 | $3.10 | $3.90 | $5.20 |

*Button's Pattern.*

| In. | 4½ | 6 | 8 | 10 |
|---|---|---|---|---|
| Per doz ..... | $2.35 | $2.50 | $3.45 | $4.40 |

*Cutting.*
Cronk's Comb ..... per doz .. $6 25
Bernard's ..... 30%
Lodi ..... 40&10&5%
Stubb's ..... 50%
*Fencing.*
Cronk's ..... per doz .. $9 25
Farmers' Choice ..... " .. 8 75
Russell's ..... " .. 8 65
*Flat and Round Nose.*
Bernard's ..... 30%
German ..... 50%
Lodi ..... 40%
Paragon ..... 40&10%
P. S. & W. Co. ..... 60%

| *Gas*—In. | 8 | 10 | 12 |
|---|---|---|---|
| Per doz ..... | $3.10 | $4.00 | $4.90 |

PLUMBS AND LEVELS.
Common ..... 75% @75&10%
Cook's ..... 40%
Davis' Iron ..... 30%
Davis' Inclinometer ..... 30%
*Stanley's*
Nos. 00S 08 28 38
Per doz .. $4.15 $4.60 $7.20 $7.90
Nos. 30 25 50 35
Per doz. $12.90 $17.20 $17.20 $11.75
POINTS. Discount
Drive, Well Points ..... 80&5%
POKERS—STOVE.
Wr't Iron, str't or bent, per doz. $0 50
Wr't Iron, wood hand'ls " 75
Nickel pl'td. coil hdl's .. " 70
POKES—ANIMAL.
American ..... per doz ..... $2 60
Brown's, wr't steel " .. $3 25@5 25
Eagle ..... " ..... $4 25
Success ..... " ..... 2 60
POLES—FISHING.
*Bamboo.*
Ft. 12 14 16 18 20
Pr 100 .. $2.75 $3.40 $4.75 $6.00 $7.75
POLISH.
*Metal.*
Burnishine, ½ pt .... per doz .. $1 60
1 pt ..... " .. 2 60
Pride of the Bar ..... " .. 1 60
Putz Cream.
Pts. 1-6 ¼ ½
Per doz ..... $0.84 $1.25 $1.80
Pts. 1 2 4 8
Per doz. $3.60 $6.00 $9.00 $18.00
Wondershine
Pts. 1-6 ½ 1 2
Per doz .. $0.60 $1.20 $2.15 $3.00
*Shoe.*
M. D. C ..... per doz .. 35c@50c
F. C. O ..... " ..... 40c
T. M ..... " 50c@$1 25
Imperial ..... per gr ..... $5 00
*Stove.*
Black Eagle, 1 lb cans, pr gr .. $15 00
Blackene, 1 lb cans .... " .. 13 00
Black Jack, ¾ lb cans. " .. 9 00
Dixon's Carb. of Iron. " .. 5 75
Enameline ..... " .. 4 75
Nickel Plate ..... " .. 4 50
Rising Sun ..... " .. 6 00
POPPERS, CORN.
Round or Square, 1 qt. per doz., 85@95c
Square, 1½ qt ..... per doz., $1 00
Square, 2 qt ..... per doz., 1 20
1 qt. reversible ..... per doz., 1 60
POTS—FIRE.
Berns ..... each .. $3 85
Clayton & Lambert's, each. $4 75@6 25
Gate City ..... each .. 6 25
Gem ..... " .. 6 75
POWDER.
See Ammunition.
PRESSES—FRUIT AND JELLY.
Enterprise Manufacturing Co ... 25%
Henis ..... per doz. $3 10
PRUNERS.
Disston's Pole ..... per doz .. $7 50
Henry's Improved .. per doz .. 65&10%
Water's Improved. " ..... 75%
PULLERS.
*Cork.*
Modern ..... each .. $2 60
Quick and Easy ..... " .. 2 90
*Nail.*
Giant ..... per doz .. $9 00@10 50
Giant Pattern. " .. 6 00
*Tack*—Giant ..... " .. 6[illegible]
PULLEYS.
*Awning*—Jap'd ..... 35&5%
*Clothes Line* ..... 35%
*Hay Fork.*
Iron Wheel, 5 in ..... per doz .. $1 70
Wood Wheel, 6 in ... " .. 1 60
Wood Wheel, 8 in ... " .. 1 75
pass knot ..... " .. 1 75
*Hot House*—Jap'd ..... 33⅓%
*Screw* ..... " ..... 35%
*Side* ..... " ..... 35%
*Sash.*
Chicago ..... per doz .. $0 29
Clark's ..... " .. 43
Common Sense, 3 in .. " .. 26
" Pattern, 3 in .. " .. 31
Empire ..... " .. 33
Ideal ..... " .. 21
Ottumwa, ball b'ring " .. 38
Grand Rapids, No. 17 " .. 28
" No 11 " .. 24
PUMPS
*Pitcher Spout.*
Nos. 1 2 3 4
Each ..... $0.98 $1.10 $1.20 $1.45
*Spray.*
Blizzard ..... per doz .. $14 25
Cyclone, tin ..... " .. 3 90
" copper ..... " .. 6 75
Daisy ..... " .. 8 75
Little Giant ..... each .. 3 40
PUNCHES.
*Conductors'*, No. 22 .... per doz .. $2 50
*Machine* ..... per lb . 19
*Saddlers'.*
Common ..... per doz .. 60c@70c
Good ..... " .. 75c@$4c
*Spring.*
1 Tube ..... per doz. $6
4 Tube, revolving ... " .. 5 25
*Tinners'.*
Hollow ..... 40%
Solid ..... each .. 5½c
PUTTY.
*In Bladders.*
Strictly pure ..... per 100 lbs. $2 35
Commercial ..... " " 2 10
RAIL.
*Barn Door.*
Light Wrought .. ..... per ft. 3c
Safety ..... " 5½c
Single Flange ..... " 1⅝c
Smith's Wro't Bracket—plain 3¼c
Smith's Special ..... 4¼c
Smith's "Never Jump" .... 11c 50%
Smith's Plain Steel ..... 30%
Smith's Milled Steel ..... 4¼c
*Sliding Door.*
Painted iron ..... per ft. 4½c
Bronzed wr't iron ..... " 5½c
RAKES.
*Coal or Road* ..... per doz. $5.25
*Garden.*
Steel, braced ..... 70&10&5%
Steel, bow ..... 70, 5, 10&5%
Malleable iron, heavy ..... 70@10%
*Hay*—Wood ..... per doz. $1 05@1 70
*Lawn*—Wood.
Common ..... per doz. $2
Automatic ..... " 6 00
New Lawn Queen .... " 3 00
Jumbo, 36 teeth ..... " 5 75
RASPS—See Files.
REGISTERS.
List Sept. 1, 1901.
White Japanned ..... 75&10%
Nickle Plated ..... 75& 0%
Copper ..... 75&10%
Electro Plated Brass ..... 50%
RINGS
*and Ringers*—Hog.
Blair's Rings ..... per doz. 60c
Blair's Ringers ..... " 84c
Brown's Rings ..... " 65c
Brown's Ringers ..... " 90c
Champion Rings ..... " $2 25
Champion Ringers ..... " 1 70
Hill's Rings ..... " 45c
Hill's Ringers ..... " 70c@85c
Mazor Rings ..... " 80c
Mazor Ringers ..... " $1 15
Perfect Rings ..... " 84c
Perfect Ringers ..... " $1 05
Wolverine Rings ..... " 1 50
Wolverine Ringers .... " 70c
*Bull.*

| Copper, | 2¼-in. | 3-in. |
|---|---|---|
| per doz ..... | $1 35 | $1 70 |
| Steel ..... per doz. | 95 | 1 65 |

Steel, Nickel Pl't'd, 2¼-in., doz. 1 35
Rea's Self Piercing .. ..... $1.95
*Fruit Jar*—White ..... per lb. 30c
*Key.*
Split, round ..... per doz. 15c
Split, square ..... " 33c
Hall, round ..... " 22
RIVETS.
*and Burrs.*
Copper Belt ..... 50&10&5%
Coppered Iron ..... 75%
Tinners' ..... 75%
*Hame* ..... per lb. 6c
*Slotted Clinch* ..... per doz. 70c@75c
*Tubular*—Nos. 1 and 2, assorted sizes ..... per doz. 60c
ROPE.
Per lb.
*Manila*, 7-16 inch diameter and larger ..... 12½c "
*Sisal*, 7-16 in. and larger .. 8½c "
*Cotton.*
¼ and 5-16-in. on reels ... per lb. 13c
¼ and 5-16-in. in coils ... " 12½c
RULES.
Boxwood ..... 40% @40&10%
There is no regular discount on Boxwood Rules. They are now sold net.
Ivory ..... 35&5%
SASH WEIGHTS.
Per ton, f.o.b. Chicago ..... $30.00
SAWS.
*Back.*
Disston's ..... 35&5%
Jackson's ..... 35&5%
*Butchers'*—Disston's ..... 40%
*Circular.*
Disston's ..... 50%
Hiles' ..... 50%
*Compass.*
Common ..... per doz. $1 25@1 40
Disston's ..... 35&5%
*Cross-Cut.*
Atkin's ..... 40%
Disston's ..... 40&10% &50%
Pocahontas Bit ..... per ft. 25c
Pocahontas, Blued ..... " 41c
*Dehorning.*
Atkins' ..... per doz. $5 50
Disston's ..... " 5 75
*Hack.*
Disston's ..... 30%
Keystone ..... 30%
*Hand and Rip.*
Brown's ..... 30&5%
Disston's No. 7 ..... 30&5%
Disston's Nos. 8, D8, 12, 76, D100, and 120 ..... 25&5%
Gorham's Comb ..... 30&5%
Keystone ..... 30&5%
Sam Sickles', hand .. per doz. $4 25
"I Will," hand ..... " 5 7
"I Will," rip ..... " 6 7
"U. S. A." hand ..... " 12 25
"U. S. A." rip ..... " 14 25
*Keyhole*—Disston's ..... 35&5%
*One Man* ..... 50%

SAWS—CONTINUED.

*Panel.*
Brown's ..... 30&5%
Disston's No. 7 ..... 30&5%
Disston's Nos. D8 and 12 ..... 25&5%
"I Will" ..... 40%
"U. S. A." ..... 40&10&5%
*Pruning.*
Avery's Duplex ..... 25&5%
Brown's ..... 25&5%
Disston's ..... 25&5%
*Wood.*
Common ..... per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW SETS.

Common Lever ..... per doz. $ 1.20
Stillman's Lever ..... per doz. 1.30
Leach's ..... per doz. 5.00
Nash's ..... per doz. 4.20
Monarch ..... per doz. 6.50
Morrill's, Old Style ..... per doz. 5.00
" No. 1 ..... per doz. 7.25
" No. 3 & 4 X Cut. per doz. 11.50
" No. 11 ..... per doz. 8.40
Aiken's Pattern ..... per doz. 3.50

FRAMES—SAW.

Common, plain ..... per doz. $1 20
" painted ..... " 1 60

SCALES.

*Counter.*
Fairbank's Standard ..... 40%
Hatch's ..... per doz. $21 50
Little Detective, 1 2 6
Each ..... $1 65 1 85 1 80
No. 1 Tea ..... per doz. 7 75
Union Platform ..... each 2 35
Pelouze ..... 25%
Turnbull's Market ..... 50%
*Platform.*
Common, 600 800 1000
Each ..... $8 75 9 75 10 75
Chicago Standard ..... 33⅓% & 40%
Fairbank's Standard ..... 40%

SCOOPS.

*Ames* ..... 10&10%
*Eastern Pattern.* Socket Strap.
Nos. 2 3 4 5 6
Per doz. $7.75 8.00 8.25 8.50 8.75
Nos. 7 8 9 10 12
Per doz. $9.00 9.25 9.50 9.75 10.25
*Western Pattern.* Socket Strap.
Nos. 1 2 3 4 5
Per doz. $7.75 8.00 8.25 8.50 8.75
Ajax *Eastern Pattern,*
Nos. 2 3 4 5
Per doz. $5.75 6.00 6.25 6.50
Nos. 6 7 8 9
Per doz. $6.75 7.00 7.25 7.50
Ajax. *Eastern Pattern,* extra heavy,
Nos. 3 5 6 7
Per doz. $7.75 8.25 8.50 8.75
Ajax. *Western Pattern,*
Nos. 4 5 6 7
Per doz. $6.25 6.50 6.75 7.00
Nos. 8 9 10 12
Per doz. $7.25 7.50 7.75 8.25

SCRAPERS.

*Box.*
Stanley's Adjustable, per doz. $3 60
Triangular ..... " 2 10
*Cabinet.*
Ajax ..... per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80 ..... " $7 75
*Road.*
Cubic ft. 7 5 3
Without runners, ea. $5.00 4.75 4.50
With runners .... " 5.25 5.00 4.75

SCREWS.

*Bench.*
Iron ..... 40%
Wood, white maple .. per doz. $3 60
*Hand*—Wood ..... 20%
*Hand Rail* ..... 70&10%
*Jack* ..... 75&5%
*Lag or Coach.* Gimlet Point .. 70&10%
*Saw*—Centennial.
Nos. 1 2 3 4
Per doz. ..... 22c 25c 32c 36c
*Wood.*
F. H. Bright Steel ..... 90&10%
R. H. Blued Steel ..... 85&10%
F. H. Jap'd Steel ..... 80&15%
F. H. Brass ..... 85&10%
R. H. Brass ..... 80&15%
R. H. Nickel Plated ..... 75&10%

SCYTHES.

Clipper, grain ..... per doz. $8 75
Dutchman, grass ..... " 5 50
Golden Clipper, grass. " 5 25
U. S. A., grass ..... " 6 50

SETS.

*Nail.*
Round, common ..... per doz. $0 33
Square " ..... " 42
Octagon " ..... " 33
Square, Buck Bros. " 1 25
Cup Point, knurled, pr doz. 70c@90c
*Rivet.*
Farmers' ..... per doz. $1 45
Tinners' ..... 50&10%
*Saw.*
Aiken's Pattern ..... per doz. $3 50
Common Lever ..... " 1 20
Disston's Monarch ..... " 6 50
" X Cut ..... " 11 75
German ..... " 1 35
Morrill's Old Style ..... " 5 00
" Pattern ..... " 4 50
Leach's ..... " 4 80
Nash's Hand ..... " 4 00
" X Cut ..... " 5 50
Stillman's Lever ..... " 1 50
" X Cut ..... " 3 50

SHARPENERS—SKATE.

Diamond ..... per doz. $1 60

SHAVES—SPOKE.

Iron ..... per doz. $1 15@$2 25
Wood ..... " 2 75@ 4 75
Bailey's ..... 50&5%
Goodell's ..... 15%
Stanley's Universal ..... 30&5%

SHEARS.

*Pruning.*
Buckeye, No. 1 ..... per doz. $6 50
" No. 2 ..... " 8 50
California Pat., 9 in. " 4 25
" 10 in. " 5 00
Draw Cut, No. 3 ..... " 15 50
" No. 4 ..... " 18 50
Henry's Pat. 0 01 14 012
Per doz. $1.90 $2.50 $3.15 $3.50
Star ..... per doz. $4 75
*Sheep*—No. BBA.
6 in. 6½ in. 7 in.
Reg. Grip .. $11.00 $11.35 $12.00 doz.
Nar. Grip .. 11.20 11.00 12.15
*Tinners'*—See Snips.

SHEAVES—SLIDING DOOR.

In. 3 4 5
*Common* .. Per set .. $0.34 $0.43 $0.68
*Hatfield's.* " .. .75 1.00 1.60

SHELLERS—CORN.

Union ..... per doz. $7 25

SHOT—See Ammunition.

SHOVELS AND SPADES.

*Railroad, Etc.*
Gold Hibbard's ..... per doz. $9 25
C. H. Conovers's .... " .. 7 75
Beckwith's ..... " .. 7 75
Hickory ..... " .. 6 25
Greenleaf's ..... " .. 5 75
Columbus ..... " .. 5 00
Ames' new list ..... Discount 12½%
*Coal.*
No. 2 Ajax ..... per doz. $5 25
No. 4 Golds ..... " .. 6 25
Ames' new list ..... Discount 12½%

SIEVES.

Champion ..... per doz. $1.00
Hunter's Genuine ..... " 1.20
" Imitation ..... " 1.00
Tin Rim, 16 mesh plain wire" 1.35
Wood " 16 mesh plain wire" .85

SINKS.

*Cast Iron.*
Painted ..... 50&10&5%
Enameled. White ..... 60&10&5%
*Wrought Steel.*
New Era ..... 50%

SLEDGES—See Hammers.

SNAPS—HARNESS.

Champion ..... 65%
German Pattern ..... 30&5%
Judd's Pattern ..... 60&10%@70%

SNATHS.

Double Ring, Bush .... per doz. $6 50
Patent Loop " .... " .. 7 00
" " Brass .... " .. 6 25

SNIPS—TINNERS'.

Hernisch's ..... 40&5%
National ..... 40&5%
P. S. & W. Co.'s ..... 25&5%

SOLDER.

See Metals, Column 1

SPRINGS—DOOR.

*Perfect.* Nos. 1 2 3 4
Per doz. ..... 35c 40c 45c 50c
*Reliance.* Light $1.40. Heavy $2.20 doz.
*Star* ..... " .90, " 1.30 "
Torrey's ..... per doz. $1 35
Warner's ..... per doz. 68c@$1 35

SQUARES

*Steel and Iron* ..... 70%
(Add for Bluing, $2.50 per doz., net.)
*Mitre*—Stanley's No. 12 ..... 40%
*Try.*
Stanley's No. 20, new list .... 40&5%
" Nos. 12 and 14 ..... 40%
*Try and Bevel*—Stanley's ..... 40&5%
*Try and Miter.*
Fox's ..... per doz. $7 25
Winterbottom's ..... 50%

SQUEEZERS—LEMON.

Common Wood ..... per doz. $0 72
Porcelain Lined, wood. " .. 1 30
Boss, tinned iron ..... " .. 80
Pearl, nickel plated ..... " .. 1 30
Star " " ..... " .. 1 60
Little Giant, tin'd iron " .. 4 25
King ..... " .. 2 40
Drum ..... " .. 4 25

STAPLES.

*Blind*—Barbed ..... per lb. 9½@10c
*Butter Tub* ..... " 8@8½c
*Fence*, less than carload.
Polished ..... per 100 lb. $2 40
Galvanized ..... " 2 80
*Netting*—Galvanized ..... per keg 3 60
*Wrought.*
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples ..... 85&10%
Extra heavy ..... 80%

STEELYARDS.

Discount 25%

STONES.

*Axe.*
Hindostan ..... per lb. 5½@7c
More Grit ..... " 9½c
Washita ..... " 16½c
*Emery* ..... 60%@60&5%
*Oil*—Unmounted.
Arkansas Hard ..... per lb. $3 00
Arkansas Soft ..... " 1 15
Hindostan ..... " 9½@9½

Lily White ..... per lb 43c
Queer Creek ..... " 14½c
Ouachita ..... " 35c
Washita ..... " 23c
*Sythe.*
Black Diamond ..... per gro. $7 75
Clear Grit ..... " 4 25
Gem Corundum ..... " 7 50
Green Mountain ..... " 4 20
La Moille ..... " 7 00
Pikes Gen. No. 1, Ind. Pond., per gro ..... 4 75
White Mountain ..... per gro. 6 50
Willoughby Lake ..... " 6 25
Red End ..... " 3 15

STOPS—BENCH.

Hotchkiss' ..... per doz. $3 60
Morrill's No. 1 ..... " 5 75

STOPPERS—FLUE.

Common ..... per doz. 42c
Crown ..... " 48c
Gem, flat, painted ..... " 72c
Gem, cor'd, decorated ..... " 68c
Kirch's ..... " $1 20
Peerless ..... " 72c
Skinner's Common Sense " 95c

STRAPS.

*Scoop* ..... per doz. prs. $1 80
*Skate* ..... " " 60@70c

STRETCHERS.

*Carpet.*
Bullard's ..... per doz. $3 00
Excelsior ..... " 5 50
Malleable Iron ..... " 65
Perfection ..... " 6 00
*Wire.*
N. S. Elwood's ..... per doz. $5 75
O. S. Elwood's ..... " 5 75
Little Giant ..... " 5 00
Star Lever ..... " 6 25
Star Tackle Block ..... " 9 25
Warner's ..... " 6 25

SWEEPERS.

*Carpet*—Bissel's.
Standard ..... per doz. $21 00
Grand Rapids Jap'd. " 23 00
Grand Rapids Plated " 25 00
Baby ..... " 2 10
Little Jewel ..... " 6 25
Misses' ..... " 9 75
*Lawn*—Finley ..... 10%

SWIVELS.

Malleable Iron ..... per lb. 6½c
Wrought Steel ..... per gro. $4 50

TACKS.

American Cut ..... 90&5%
American Wire ..... 85&25&10%
Bill Posters Cut ..... 90&40%
Blued Carpet ..... 90&15%
Tinned Carpet ..... 90&15%
Gimp ..... 90&30&10%
Upholsters' Cut ..... 90&40&5%
Upholsters' Wire ..... 90&25%
Double Pointed ..... 90&20%
Copper ..... per lb. 26c
Canvas Nails ..... 75&5%
Clout Nails ..... 75&10&5%
Hungarian Nails ..... 80&5%

TAPES—MEASURING.

Asses' Skin ..... 40&10%
Bend Leather ..... 25%
Patent Leather ..... 25%
Lufkin's Steel ..... 30%
Lufkins Metallic ..... 30%

TENTS AND PAULINS.

Wall Tents ..... 50&30&10%
Wedge Tents ..... 50&10&5
Paulins ..... 50&10&5%
Wagon Covers ..... 50&10&5%

THERMOMETERS.

Tin Case ..... per doz., 95c@$1 25
Wood Back ..... " $1 75@ 9 00
Glass ..... " 15 50

TIES.

*Bale.*
Single Loop ..... 80&10&5%
All other kinds ..... 65&10%
*Cow*—See "Chains."

TONGS.

*Crimping*—Packham's ... per pair 50c
*Gutter*—P. S. & W. Co.'s ..... 15&10%
*Pipe*—Brown's ..... 50%
*Roofing*—P. S. & W. Co.'s .... 15&10%

TOOLS—SAW.

Atkin's Dexter ..... per doz. $4 25
Atkin's Excelsior ..... " 6 25
Disston's Universal ..... 40%
McDonald's ..... 33⅓%
Simond's Crescent ..... per doz. $10.00

TRAPS.

*Game.*
Hawley & Norton ..... 70%
Newhouse ..... 50%
New Victor ..... 80%
*Mole*—Reddicks ..... per doz. $6 75
*Mouse and Rat.*
Wood Choker ..... per hole 10c
Tin Choker ..... " 11c
Delusion ..... per doz. 85c
Out-o'-Sight, Mouse .... " 65c
Out-o' Sight, Rat ..... " $1 35
Imitation Sight, Rat .. " 80c
Marty Rat ..... " $6 75
Marty Rat, Imitation .. " 3 75
Marty Mouse ..... " 3 15
Marty Mouse, Imitation " 2 10
E-Z-Ketch, Mouse ..... " 42c
E-Z-Ketch, Rat ..... " 90c
French Automatic ..... each $3 60
*Fly.*
Balloon ..... per doz. $1 35
Harper's ..... " 1 35

TROUGH—EAVE.

Eastern ..... Discount 80&7½%
Central ..... " 80&10%
South Western ..... " 75-10&5%
Missouri River ..... " 80&10%
Southern ..... " 75-10&5%

TROWELS.

*Brick.*
Standard ..... 30%
Brade's ..... 10&7½%
Disston's ..... 30%
Rose's ..... 25%
*Plasterers'.*
Standard ..... 33⅓%
Disston's ..... 30%
W. & McP ..... 25%

TRUCKS.

Bags ..... each $1 60
Handy ..... " 1 35
Warehouse ..... 60&5%

TUBS-WASH.

| | No. 3 | Ex. 2 | 1 large |
|---|---|---|---|
| *Standard*, per doz. | $5.25 | 6.25 | 7.25 9.75 |
| *Dowel* .... " | 5.60 | 6.60 | 7.50 10.00 |
| *Cedar* .... " | 6.50 | 7.50 | 8.25 |
| *Indurated.* " | 7.20 | 7.95 | 9.45 11.70 |

*Galvanized.*

| | No. 1 | 2 | 3 |
|---|---|---|---|
| Per doz ..... | $5.75 | 6.25 | 7.00 |

VISES.

Bonney's ..... 30%
Cheney's ..... 30%
Parker's Oval Slide ..... 50@50&10%
Parker's Parallel ..... 15@20%
Parker's Victor ..... 10%
Parker's Combination ..... 5&10%
Solid Box ..... 50%
Adam's Mechanics' ..... each $2 50

WARE.

*Cast-Iron Hollow.*
Ground ..... 50&5%
Unground ..... 60&5%
Extra Finished ..... 40&10&5%
White Enameled ..... 40&10&5%
Maslin Kettles ..... 65&10%
*Enameled.*
Adamant, one coat, 70&10%@75&10%
The manufacturers divide this ware into two classes, which take different discounts, noted above.
Crysolite, three coat ..... 40&5%

WASHERS.

| *Leather.* | In. ⅜ | 1 | 1⅛ | 1¼ | 1⅜ |
|---|---|---|---|---|---|
| Nut, per C | 16c | 17c | 19c | 25c | 32c |
| Collar, per C | 35c | 40c | 40c | 48c | |

*Wrought Iron.*

| In. | ¼ | 5-16 | ⅜ | ½ | ⅝ | ¾ to 1 |
|---|---|---|---|---|---|---|
| Per lb. | 8½c | 7½c | 6½c | 5c | 4½c | 4¼c |

*Wrought Steel.*

| In. | ¼ | 5-16 | ⅜ | ½ | ⅝ | ¾ to 1 |
|---|---|---|---|---|---|---|
| Per lb. | 9½c | 8½c | 7½c | 6c | 5½c | 5¼c |

WEDGES.

*Ax* ..... per doz. .... 30c
*Galting* ..... per lb .. 10½c
*Saw* ..... " .. 8½c
*Wood Choppers.*
Lake Superior and Oregon, Pat ..... per lb .. 9½c
Reg. Pattern, Steel ... " .. 4 c
Truckee " " ... " .. 4½c

WEIGHTS.

*Hitching* ..... per lb .. 2½c
*Sash*—F.O.B. Chicago .. pr ton .. $28.00

WHEEL BARROWS.

Common Railroad .... per doz. $13 00
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Santiago Steel Tray .. " .. 36 50
No. 04 Steel Dirt ... " .. 52 00
No. 04½ " " ... " .. 56 00

WHEELS.

*Emery and Corundum* ..... 75&5%
*Well.* In. 8 10 12 14
Per doz. .... $1.90 $2.20 $3.00 $5.50

WIRE.

| *Barbed.* | Painted. | Galv'd. |
|---|---|---|
| Carloads ... pr 100 lbs. | $2.35 | $2.65 |
| Less than car " | 2.40 | 2.70 |

*Brass.*
In coils ..... 20%
In 1 lb. spools, new list ..... 50&10%
*Broom*—Tinned ..... 60&10&10%
*Cable*—Same price as Barbed Wire.
*Copper.*
In coils ..... 20&10%@33⅓%
In 1 lb. spools, new list ..... 50&10%
*Fence*—Smooth.
Nos. 6 to 9, Annealed, pr 100 lbs. $2.20
Nos. 6 to 9, Galv'd ... " 2.60
*Hair*—New list ..... 50&10%
*Market.*
Bright, full bdles ..... 75&2½%
Bright, broken bdles ..... 70, 10&5%
Coppered, full bdles ..... 70&7½%
Coppered, broken bodies .. 70&2½%
Tinned, full bdles ..... 70, 10&5%
Tinned, broken bdles ..... 70&5%
*Picture.*
In coils ..... 80%@80&10%
In 5 lb. spools ..... per lb .. 26c
*Plain*—Small lots ..... $2.00
Car lots ..... 1.95
Small spools 5c per hundred higher

WRENCHES.

Acme Standard ..... 60%
Alligator ..... 65&5%
Always Ready ..... 40&10&5%
Bemis & Call ..... 40%
Coe's Standard ..... 40&10%
Girard's Agricultural ..... 75%
P. S. & W. Co.'s Agricultural .... 75%
" " Knife H'dle .. 50&5%
Wescott's "S" ..... 33⅓%
Malleable ..... per lb .. 6c
Stillson Pipe ..... 60&5%
Trimo " ..... 60%

WRINGERS.

*Clothes.*
Nos. 2 & 110, Guarantee, pr doz. $28 00
No. C 250, Novelty ..... " 22 50
No. 3, Empress ..... " 25 50
No. 150, Sunshine ..... " 12 00
No. 130, Mendota ..... " 18 00
No. 12, Success ..... " 15 00
No. C 500, Royal ..... " 26 00
Blue Bell Ball Bear'g. " 36 00

LB Ap '04

# Wants and Sales.

**For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.**

## BUSINESS CHANCES.

**PATENTS** HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—A good light hearse suitable for a country town or village. Will furnish price and photograph of hearse on request. Address "Photo," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 26

For Sale—Hardware and Tin Shop west of Chicago. Small, clean stock doing $7,000 business a year. Country town; has electric light, water works, good business. Can be increased. Reason for selling, sickness. Address Bargain, care American Artisan, 69 Dearborn st., Chicago, Ill. 26

For Sale—A good, clean stock of hardware, stoves, plumbing and implements in eastern Iowa town of 1,000; will invoice $6,000 to $7,000; good reason for selling; sales for 1902 will reach $24,000. For further information address "Box H. R.," care American Artisan, 69 Dearborn st., Chicago, Ill. 26

For Sale—A splendid hardware and implement business which will bear closest investigation; county seat, nice competition, fine farm section in Indiana; good reasons for selling; stock about $8,000; can reduce to $4,000 in short time. Address "Farmer," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 26

For Sale—Plumbing and tinning business in a town of 8,000; four railroads running into town; street cars running by the door; will sell cheap; good opportunity for young man wishing to go into business for himself. For particulars address P. S. McPherson, Spring Valley, Ill. 25

For Sale—For cash only, one of the best paying hardware and implement businesses in eastern Iowa; will invoice from $7,000 to $8,000. For further information address "D," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 25

For Sale—Clean stock of hardware, stoves, tinware, plumbing and tin shop in county seat of eastern Nebraska, 9,000 population. Invoice about $9,000; $32,000 annual sales. Will sell right if bought at once. Have other business requiring my attention. Address Box "297," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 25

Wanted—To trade, 640 acres for hardware stock, from $3,000 to $5,000; best land in Morton Co., N. Dak. R. R. is being built within two miles of land; stock is to be moved. Address Box 299, Alden, Minn. 25

For Sale—An absolutely clean stock of hardware in a good Nebraska town; sales $19,000; rent, $30; brick building. City water and electric light. M. E. Haight & Co., Crete, Neb. 25

To Exchange—A nearly new Ideal shotgun, shell loading machine, loads 10, 12, 16 Ga. shells, in exchange for a setting down machine. A. F. Ramharter, Clear Lake, S. D. 24

To Exchange—Some good Minnesota or North Dakota land for hardware or a mixed hardware and furniture; give size of stock. Box 57, Garner, Iowa. 24

For Sale—Nice clean stock of hardware and implements, etc., etc., in a thriving manufacturing town, best stock and best business in city of 5,000; have best of reasons for selling; if you mean business and want a good opening answer this; stock will run about $8,000, but can reduce. Address "Reduce," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 24

## TINNERS' TOOLS.

A second-hand (48-in.) round, heavy grate and border for sale cheap. Joe Lauth, Pontiac, Ill. 25

For Sale—A full set of tinner's tools, a 30 in. squaring shears included, all in first-class order; P. S. Wilcox make. Address E. H. May, Bedford, O. Will give you list of tools and price for same. 24

Wanted—To buy set of tinner's tools. Address T. O. Halveson, Sheldahl, Ia. 23

For Sale—One large burring machine with standard, Stow's make; one Burton double seamer, 12 disc. S. D. Baxter, Algonquin, Ill. 23

For Sale—Good second-hand Baltzly's steel stove truck, also one 30 inch P. S. W. stove pipe folder, nearly new. Chas. Skidd, Kenosha, Wis. 21

Wanted—Eight-foot cornice brake. Must be in first-class condition. State price, make, how long been used. Address S. D. Baxter, Algonquin, Ill. 21

## HELP WANTED.

Wanted—By Jan. 15th or Feb. 1st, a good all-around tinner; must be sober and honest; steady job; state wages and give reference. J. T. Wictor, Remsen, Iowa. 26

Wanted—At once, a good all around turner; he must be strictly temperate; good wages and steady job the year around. Send references. Address Reeder Bros., Clinton, Wis. 26

Wanted—By an old established furnace manufacturing concern, two or three first-class salesmen for warm-air furnaces, water and steam heaters. Address "B. F.," care American Artisan, 69 Dearborn st., Chicago, Ill. 26

Wanted—Stove salesman for Ohio and Indiana for an Ohio manufacturer, making a full line of moderate priced goods. Address, with full particulars, "Ohio," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 26

Wanted—By Jan. 15 or Feb. 1, a man to work in tin shop and clerk in store when not busy in the shop. Would prefer one who has had some experience in pipe work and thread-cutting; state experience and wages expected; must furnish references; steady job to the right man. Address E. J. Ketcham, West Duluth, Minn. 26

Wanted—Two first-class stove salesmen for Iowa and Illinois. Must have experience and established trade. State age, residence, former employer, territory, sales, etc. Bergstrom Bros. & Co., Neenah, Wis. 25

Wanted—A tinner, steady and reliable; steady job to right man; must be sober; must be ready to come at once, and do inside and outside tin work. Address P. O. Box 346, Sioux Falls, So. Dak. 25

Wanted—At once, good all round heating, iron and tin worker, capable of taking charge of a shop. Address Pacific Hardware Co., Everett, Wash. 25

Wanted—A first-class tinner and furnace man; steady employment; good wages; wages for every working day in the year; married man preferred; must be a good workman, and sober. Jones Bros., Milford, Ill. 25

Wanted—At once, first-class tinner for in and outside work; prefer one who has some knowledge of furnace and bicycle work. State wages wanted; in good town of 700; steady job. Address, H. A. Ebert, Alden, Minn. 25

Wanted—A good, steady, sober man, who understands tinning and plumbing; steady employment and good wages to right man. A drinking man need not apply. Williams & Ripley Hardware Co., Winchester, Ind. 25

Wanted—A No. 1 all round man, one who understands furnace work, and can do all kinds of tin work. Mackenzie Bros., Poynette, Wis. 24

Wanted—A first-class salesman to represent us in Iowa. Only men of proven ability will be considered. A. J. Lindemann & Hoverson Co., Milwaukee, Wis. 24

Wanted—A first-class catalogue compiler. Good position guaranteed for one year to the right man. Apply to Farwell, Ozmun, Kirk & Co., St. Paul, Minn. 24

Wanted—By January 1st or Feb. 1st, good all around tinner and clerk; must be sober, honest and industrious; steady job; state wages; give reference. Thos. Rawlings, Wakefield, Neb. 24

Wanted—Experienced hardware man, one who is thoroughly acquainted with builders' hardware. A permanent position and a good opportunity for advancement is offered the right man. Rehm Hardware Co., 353 Blue Island Ave., Chicago, Ill. 24

Wanted—Man not over 32 years of age, with thorough practical experience in general hardware and tools. Fine opportunity as first assistant in a business aggregating $800,000.00 annually. Will pay good salary to start. Give complete references and outline of experience. State salary expected and when can start. Address T. P. Roberts, 114 Dearborn St., Chicago, Ill. 24

## SITUATIONS WANTED.

Position Wanted—Central Ill., as hardware clerk and tinner, age 36 years; have done most of tin work in town of 1,500 population for several years. Address P. O. Box 52, Maroa, Ill. 26

Wanted—By Feb. 1, 1903, position as superintendent by an all round stove man; capable in all departments of stove manufacture; employed at present as general superintendent of large stove works; satisfactory reasons for desiring to make change; good reference. Address "Superintendent," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 26

Wanted—An experienced hardware man who understands manufacturing. Address in strict confidence, Norwood, 296 Broadway, New York City. 25

Wanted—Position as wood patternmaker; have had 18 years' experience; Chicago preferred; best of references. Address "Patternmaker," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 25

Wanted—Situation as stove or house furnishing goods salesman; 35 years' experience. Geo. B. Treat, LaSalle, Ill. 24

Wanted, Position—Would like a large line of steel ranges and stoves on commission or salary. Wisconsin preferred. Can give A No. 1 reference. Address "Good," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 24

Situation Wanted—By an A No. 1 competent tinner. Am married and desire a steady, permanent place. Can take full charge of shop; do anything in line of general tin work or hot air heating; am strictly sober, steady and reliable. Address "B. M. Z.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 24

Wanted—Position as traveling salesman in Wisconsin and upper Michigan; have sold stoves and ranges for five years; best of references. Address "U. P. M.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 23

Situation Wanted—By a stove salesman of ability; twelve years' experience; understand oil, gas and gasoline stoves thoroughly; can furnish A1 reference; am not particular about territory. Address Box 515, Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 23

Wanted—A position by Jan. 1st, by a good tinner and furnace man, 25 years old; 9 years' experience; speaks German; can take full charge of shop; strictly sober and reliable; best references. Any one wanting to pay good wages for a good man answer, stating wages. Wm. J. Grummer, Newport, Ark. 23

Wanted—Position for 1903 with a good stove house; can furnish first-class reference. Ohio, Ind., or Ill. preferred. Address "Stove Salesman," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Situation Wanted—By a young man of 22 years of age; have had six years' experience in the retail hardware and can give good reference; want to go on the road for some hardware or stove house. Address "Road," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Situation Wanted—By an all around tinner, job worker and furnace man. Address Carl Storch, 1720 Broadway, Indianapolis, Ind. 21

Situation Wanted—Stove salesman of ability is open for an engagement for 1903. Iowa preferred. A1 references. Address N. 2619 State, St. Joseph, Mo. 21

Position Wanted—As traveling salesman in Wisconsin and Minnesota. I am thoroughly posted on furnace work and have had twenty years' experience. Can furnish best of references. Will work either on salary or commission. Address "Box M.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

## SPECIAL NOTICES.

### WANTED.

Western Manufacturer of full line of Hotel Ranges and other Culinary Appliances, wishes to engage the services of a Salesman with experience in this line. Please do not apply unless you can present convincing evidence of possessing ability and energy. "Box 331," care The American Artisan, 69 Dearborn Street, Chicago, Ill. 22

### FOR SALE.

Fresh stock of General Hardware, in thriving Iowa town of about 200, on line of C. & N. W. Ry., south of Belle Plaine. Stock and fixtures will invoice about $3,700.00. Sales last year, $8 500.00, of which 90 per cent was cash. Store can be bought for $1,500.00 or rented for $10.00 a month. Splendid farming community. For anyone wishing a good-going, profitable hardware business, no better opportunity can be found. Address,

U. S. FIDELITY ADJUSTMENT CO.,
184 Monroe St., - CHICAGO.

### MANUFACTURER'S AGENT.

Would be pleased to correspond with mannfacturers wanting St. Louis and E. St. Louis representative. Constant attention. Best reference. Address

P. O. Box. 947, ST. LOUIS, MO.

The "Weber Junior" Pumper

Can also be used for other power purposes. Is all complete, ready to attach to pump. Equals 20 men pumping water. Uses but little gasoline. Is shipped crated completely erected, all connections made. Easy to start, any one can operate it. Every one guaranteed. Other sizes up to 50 H. P. Send for catalog. Weber Gas & Gasoline Engine Co P. O. Box 1118B Kansas City, Mo.

NEWTON'S
LATEST IMPROVED
DEHORNERS

Save time and money by dehorning your cattle. Write us for special information on the subject.

H. H. BROWN MFG. CO.
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PERFORATED METAL
THE ROBT. AITCHISON PERFORATED METAL CO.
303-305 DEARBORN STREET, CHICAGO, ILL.

Postal Scale $1.00

Tells at a glance postage in CENTS on all mail matter. Capacity, 1 pound by half ounces. 3 inches high. Cuts down the stamp bill. Useful and attractive present. We make several styles from $1.00 in nickel, as shown, up to $6.00 in sterling. If dealer doesn't sell it, we prepay on receipt of price. Catalogue F. free.

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Of Sunlight Acetylene Burners cost more. The best American burners, in widest variety, at terms attractive to the hardware trade. Quick shipments.

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CHATTANOOGA, : : TENN.

Twin City Fence and Wire Works

Manufacturers of all kinds of Ornamental and Architectural Iron and Wire Work, Office Railings, Window Guards, etc.

Office and Salesroom: 330 East Sixth Street, ST. PAUL, MINN.

Sheet Steel
DRAFT REGISTER
With Screws Complete.

No Cotter Pins or Washers

Stock Sizes 2¾ to 5¼ inches.

Send for price.

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The Pump that Pumps

SPRAY PUMPS

Double-acting, Lift, Power, Tank and Spray

PUMPS

Store Ladders, etc. Barn Door Hangers

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of all kinds. Write for Cir's and Prices

F. E. MYERS & BRO. Ashland, O.

Established 1874.

The largest and most reliable Foundry Supply House in the world.

THE
S. Obermayer Co.,
CINCINNATI, OHIO,
CHICAGO, ILL.
manufacturers

"Everything You Need in Your Foundry."

Importers and refiners
PLUMBAGO GRAPHITE.
Catalog Sent on Application.

TEXAS

AND HER
Famous
Winter Resorts

Best reached from ST. LOUIS and Memphis via the

IRON MOUNTAIN ROUTE.

ELEGANT THROUGH SERVICE.
3—DAILY TRAINS—3

DINING CARS,
MEALS A LA CARTE.

A. W. LICHTFELD, Libertyville, Ill., writes:—"Please take out my advertisement for Tinners Tools in THE AMERICAN ARTISAN. It does not take THE AMERICAN ARTISAN long to find customers."

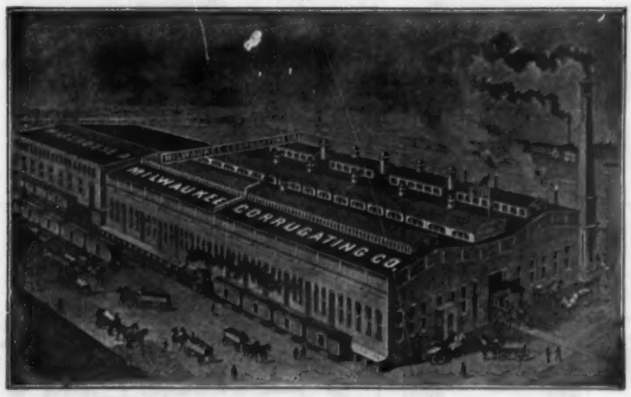
DIXON'S SILICIA GRAPHITE PAINT

*FOR TIN OR SHINGLE ROOFS AND IRON WORK.*
*IT IS ABSOLUTELY WITHOUT AN EQUAL.*

Tin roofs well painted have not required repainting for 10 to 15 years.

If you need any paint it will pay you to send for circular.

JOSEPH DIXON CRUCIBLE CO. Jersey City, N. J.

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MILWAUKEE, WIS.,

MANUFACTURERS OF

| ROOFING | | CORNICES | | CEILINGS |
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| | Eave Trough | | Steel Roofing | |
| | Cond. Pipe | | (all kinds) | |
| | (Rd. and Sq.) | | Corrugated Iron | |
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| | Pat. 11-14-99 | | Rock Face | |
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TINPLATE—GALVANIZED IRON—SOLDER.

WE ARE THE ONLY AUTHORIZED MANUFACTURERS OF CORRUGATED CUT-OFFS.—(Beware of Infringement.)

# The American Ventilator

is simple, handsome, durable and effective. It is guaranteed to exhaust more cubic feet per hour than a large majority of the storm proof ventilators now on the market.

IT GIVES RELIEF

from the unhealthy condition of close and overheated rooms. It keeps the atmosphere in a residence, cool and refreshing during the hot summer months.

American Steel Roofing Co., MIDDLETOWN, OHIO.

THE

# Perfection Rain-Water Cut-Off

Excels all others in Simplicity-Strength-Durability

Klauer Mfg. Co.

Sole Manufacturers,

DUBUQUE, - IOWA

Successors to W. A. SMITH & CO. Patentées, LIMA, O.

# Garry Iron and Steel Roofing Co.

Roll Roofing.
Corrugated Iron.
Metal Shingles.
Clap-boards.
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Window Casings.
Fire-Proof Shutters.
Eave Trough.
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Skylights.
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Cor. Coe and Lake Streets, Cleveland, Ohio.

James Abbe & Son, Springfield, Mass., write: "Our foreman tells us it will do the work of six men; it pays for itself doubly on one job."

# KENNEY'S DOUBLE SEAMER

FOR STANDING LOCK TIN ROOFING

Is the most complete Labor-Saving Double Seamer in the market. Send for catalogue.

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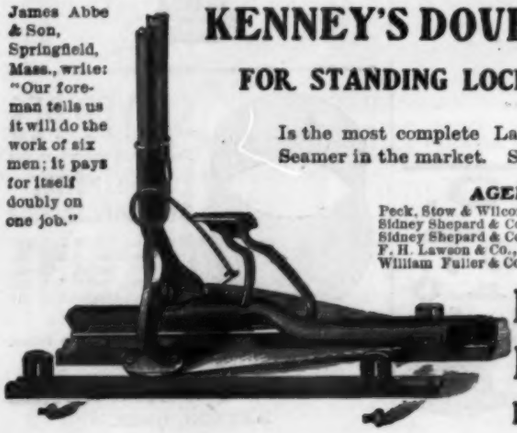

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HARTFORD, CONN.

J. H. ELLER & CO.
MANUFACTURERS OF
METAL CEILINGS
CORNICE,
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SHEET METAL SPECIALTIES.
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Ceiling

CEILING

The profit on a job of metal ceiling is not realized until the metal is applied. The less labor it takes to put the metal in place the more profit. On account of their peculiar construction "Canton" Metal Ceilings are the easiest to apply, No calking of joints, because of poor beads. No alterations on account of poor alignment, but you will have a harmonious piece of art work whenever you use Canton Metal Ceilings in classified designs. Ask for our Catalog.

METAL CANTON CEILINGS

THE CANTON STEEL ROOFING CO.,
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Eave Trough

Sky Lights Etc.

Metal Worker's Crayon.
THE D. M. STEWARD MFG. CO.

UNIFORM DISCOUNT TO THE TRADE.

D. M. STEWARD MFG. CO.
CHICAGO, CHATTANOOGA. NEW YORK

Heater Pipe Plates

Ic....20x26, 20x28, 20x29½, 20x32½, 20x39.
Ix....20x26, 20x28, 20x29½, 20x32½.

*We have a large stock and can make prompt shipment*

*Illinois Roofing and Supply Co.*

*23 Lake Street, CHICAGO*

H. WEISS & CO.
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SKYLIGHT GEARING AND CHAIN LIFTS
Tinsmiths' and Plumbers' Tools
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Second-hand goods bought, sold & exchanged

The Roof that fits

*Pliability*—ease of working and fitting around angles and corners—was one of the features of MF Roofing Tin that secured first prize for it at Paris last year. Next in value to the all-important question of a heavy tin coating, comes the ease of working—it saves waste of material and waste of time—makes *the roof that fits.*

MF ROOFING TIN

TRADE MF MARK

is the best roofing from every viewpoint. It is made by hand labor entirely. Every sheet must pass a rigid examination before it is boxed—and none but perfect plates are sold. Trade mark on every sheet. Ask your roofer for MF Roofing Tin, or write W. C. CRONEMEYER, Agent, Carnegie Building, Pittsburg, for illustrated book on roofing.

AMERICAN TIN PLATE COMPANY, New York.

STOVEPIPES

Don't pull out when the S. & S. PATENT STOVEPIPE THIMBLE is used. Prevents pipe from ushing! and closing the draught. Cheap compared with the old style. Just think of the annoyance saved.

Sold to Jobbers and Dealers Only. Ask for Prices.

MANUFACTURED BY
CITY FORGE & IRON WORKS
DAYTON, OHIO.

# Our New Year's Greeting to The Trade

We would be insensible to our highest pleasure and privilege if we failed to return hearty thanks and to show our appreciation to our friends and customers for giving us during 1902 the greatest volume of business we have yet enjoyed. Hence, our salesmen, unite with us to extend our thanks to customers, who have helped us to attain this splendid result; promising to show our appreciation by furthering their best interests, for ours are identical with theirs.

With the beginning of 1903 we start a new record, and to those who have not yet joined the ranks of our customers, we extend our most earnest solicitation for their patronage.

## The Berger Manufacturing Company,

CANTON, OHIO.

**New York. Boston. Philadelphia. Chicago. St. Louis.**

LARGEST MANUFACTURERS OF SHEET METAL WORK IN THE WORLD.

**La Crosse Steel Roofing and Corrugating Co., La Crosse, Wis.**

# STEEL ROOFING

**We are also manufacturers of**
**Eaves Trough**
**Conductor Pipe**
**Elbows Mitres**
**Hangers Cut Offs**

**All kinds. All gauges. Painted and Galvanized. Lowest Prices. Prompt shipments guaranteed. Send us your orders.**

# Art Metal Ceilings

## For Interior Decorations.

**Write for Catalogue and Prices.**

We have 40 different designs to select from. Our Stamped Ceilings are the most perfectly embossed ceilings on the market.

**Estimates Furnished on Special Work.**

**SPECIALTIES:**

**Steel Ceiling, Zinc and Copper Ornaments, Statuary in Bronze, Zinc and Copper, Crestings, Finials, Capitals, Galvanized Steel Horses for Merry-Go-Rounds, Copper Plated Ceilings in Antique Finish, etc., etc.**

## Friedley & Voshardt

**194-202 Mather St., CHICAGO, ILL.**

COMBINATION

## Rainwater Cutoff and Strainer

FEATURES.

A perfect cutoff. A reliable strainer. You can see into it. Stays set where you set it. Leaves, sticks, bugs, etc., are thrown out by the force of the falling water. The lever points toward the pipe the water will flow into.

For sale to the trade by the

**GALESBURG CORNICE WORKS,**
**GALESBURG, ILL.**

The O K Steel Brake.

**The O K Steel Brake beats them all.** Stronger, less expensive, more durable, works faster. Less freight charges. It is up-to-date. Sold by

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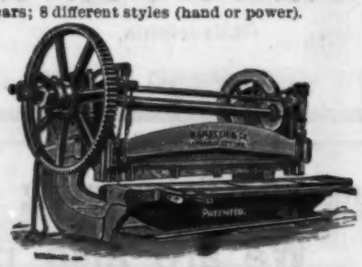
**Dreis:, Andrews & Krump,**
MANUFACTURERS, 3214 So. Halsted St., CHICAGO, ILL.

## IMPROVED SHEARS AND GAUGE PUNCHES

with or without engine, or Direct Steam Shears; 8 different styles (hand or power).

AUTOMATIC SELF-OPENING ROLLS, quickly and easily adjusted, all sizes to 20 feet. Also Crimping Rolls, Hand and Power Punches, Labor-Saving Machines, etc.



**BERTSCH & CO., Cambridge City, Ind.**

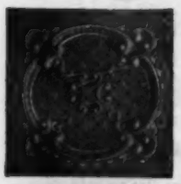
Ask Your Dealer For The **GEM SOLDERING FURNACE** AND YOU WILL MAKE NO MISTAKE

Always Ready.
No Smoke.
No Odor.
No Noise.
Unexcelled.
Unequaled.
Unrivaled.
Safe, Sure. Durable.

Made Only By

Thirty Years Experience.

**Burgess Soldering Furnace Co.,**
COLUMBUS, OHIO, U. S. A.



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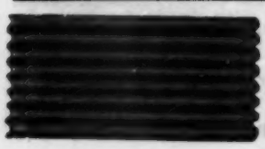
CEILINGS, SIGNS,
LETTERS, STATUARY.

Dies made and modeled for Stamping, Casting and Illustrating.
We make a specialty of Advertising Signs.

**THE ART MODELLING WORKS,**
832 MARKET STREET, CAMDEN, N. J.



Write us for Catalogue and Low Prices on BEST

**Steel Roofing, Corrugated Iron, Etc.**

We are large manufacturers of these goods and can save you money.

**SYKES STEEL ROOFING CO.** Chicago, Ill., and Niles, Ohio.

## POINTS
### Worth Considering

$2.50 Net.

When buying a torch are safety, convenience, durability and economy in the consumption of fuel. (You buy fuel all the while.)

The No. 31 Torch is well made, is strong and durable The burners are powerful, and the saving of gasoline will soon pay for the torch. Try it. **Your money back if it doesn't please.** Jobbers sell at factory price, or we will ship by paid express upon receipt of $3.00.

**Clayton & Lambert Mfg. Co.**
DETROIT, MICH., U. S. A.

## TINNERS FIND EMPLOYMENT

By advertising and using

THE POWERS AUTOMATIC CHIMNEY TOPS.

They make chimneys draw, give tinners employment making stocks, and give the dealers profit.

Sold by Hardware Jobbers and Dealers Made only by

**POWERS BROS.**
STREATOR, ILL.,

This cut free to dealers.

## BIG FOUR ROUTE

CHICAGO to INDIANAPOLIS, CINCINNATI, LOUISVILLE, THE SOUTH AND SOUTHEAST

PEORIA, ST. LOUIS, INDIANAPOLIS, CINCINNATI, LOUISVILLE to NEW YORK AND THE EAST

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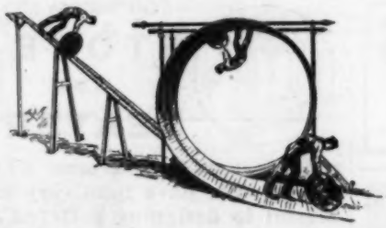
W. J. LYNCH, G. P. & T. A.
CINCINNATI.

J. C. TUCKER, G. N. A., 234 Clark St., Chicago.

**S. H. Curtis & Co.**
Waverly, Ia.
Write:

"Please take out our want ad. from your columns as we have found a man through it. In fact we found many, but did not need and could employ but the one."



## It's Easy to Loop the Loop

once you are started, and it is also easy to sell **Black Silk Stove Polish**, as it is quickly applied and invariably gives satisfaction. We are exclusive manufacturers.

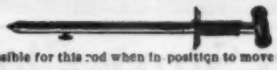
**Black Silk Stove Polish Works, Sterling, Ill.**

LEWIS D. WYNN, Proprietor.

## The YANKEE Hot Air DAMPER (IMPROVED.)

HOT AIR. THE YANKEE EXCELS. SMOKE PIPE.

**Above All—Cheapness**—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest-working and neatest damper on the market.



It is impossible for this rod when in position to move either way.

**ROD POINTS:** Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ½ in. cold rolled steel and slips into damper very smoothly. **Sample sent to any Dealer without charge.**

The S. M. HOWES CO., Manufacturers, 40-46 UNION ST., Boston, Mass.

## WILLIAMS STOVE LINING CO.

**EAGLE STOVE CLAY. INCANDESCENT GAS FUEL. BRICK STOVE LININGS.**

TAUNTON, MASS.

## RIGHT

In quality and price are the **Forest City Paints.** It has paid other dealers to handle them, why not you? Let us quote you?

**THE FOREST CITY PAINT & VARNISH CO.**

CLEVELAND, O.

## Special Wash Boilers

IXXX

Sizes 11x20½ and 12x22½.

**The Boilers that bring you trade and help you keep it.** Made with flat bottom. **Guaranteed full weight, 16 oz. Copper Bottom.** Royal handles and pieced cover. Catalogue and Prices on application.

—**We have no traveling representatives**—

Buy direct and the result is that you receive the **best of good goods** at lowest prices.

**STUBER & KUCK**

**Manufacturers of Pieced Tinware and Specialties.**

**PEORIA, ILL.**

## Fox Shaving Sets

contain the "King of all Razors," "The Fox." A good set for Holiday Trade. Send your order now. Trade Mark registered.

**FOX CUTLERY CO.,**

48 Center St., NEW YORK N. Y. CANANDAIGUA, N. Y. 928 Main St., DUBUQUE, IA.

## WHY NOT SELL INCUBATORS?

Hardware and implement dealers can sell them profitably. They sell in dull season The Klondike has points of superiority making it easy to sell. For information and terms address

**KLONDIKE INCUBATOR CO., Box 25, Des Moines, Iowa.**

**THE TRIUMPH TWINS**

Fruit can wrench & jar holder. Big sucers. Sell year round

**FORBES CO., 210 Sheriff St., Cleveland, Ohio.**

**REPAIRS FOR ALL STOVES AND FURNACES**

Stove Rods, Paste, Stove Putty, Stove Knobs, Pipe Dampers, Mica, Etc.

**Wm. T. Dust Co., Detroit.**

**REPAIRS FOR ALL STOVES AND RANGES.**

**A. G. BRAUER, 316-318 NORTH THIRD ST. ST. LOUIS MO.**

**Champion Stove Clay**

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

**BRIDGEPORT CRUCIBLE CO.**
BRIDGEPORT, CONN.

**UNCLE SAM DAMPER! THE PIONEER STEEL DAMPER**

FURNACE PIPE DAMPER.

The handle is enameled wood, will not heat, rigidly clamped and can not come off. The spring is not affected by heat. The stem is a steel rod, all one piece and nothing to fall apart; pointed and easily driven through the pipe. The Damper Plate is made of cold rolled pickeled steel, corrugated to stiffen it and prevent warping. We call special attention to lightness and strength of these Dampers and their desirability for FURNACE Pipes.

"The Difference in Weight Pays the Freight."

Ask Your Jobber for the "UNCLE SAM."

**SAYRE STAMPING CO., Sole Manufacturers, SAYRE, PA.**

DO YOU WANT **STOVES AND HEATERS** that are easily sold and STAY SOLD. We have been very successful in designing patterns for such.

**The Gobeille Pattern Co.**
CLEVELAND, OHIO.

**The GEO. W. COPE STOVE PATTERN WORKS**
Cor. Brush & Woodbridge Sts.
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**Weller Stove Pattern Co.**
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**The Milwaukee Pattern Works**
Sketches and Designs for
**STOVE AND HEATER WORK OF ALL KINDS.**
Correspondence Solicited.
505-507 Cedar Street. MILWAUKEE, WIS.

**U.S. INFALLIBLE METAL POLISH**
IN PASTE, LIQUID OR POWDER
**FOR ALL KINDS OF METALS**
Best, Cheapest, Goes Farthest. Never dries up or shrinks. Money makers for everybody. Sold by the jobbing trade. Sample free by mail. Address,
**GEO. W. HOFFMAN, Manufacturer**
295 E. WASHINGTON ST., INDIANAPOLIS, IND.
BRANCHES
1 Park Row, NEW YORK CITY
119 E. Madison Street, CHICAGO, ILL.
508 Montgomery Ave., SAN FRANCISCO, CAL.
Established 12 Years

# Acme Oven Thermometer

STYLE "D"

CLOCK FACE THERMOMETER

We claim to have as good a thermometer as there is and better than most of them that are on the market to-day.

All our thermometers are carefully tested by heat and each one is fully guaranteed.

The Acme Oven Thermometer is made in four styles.

Style "A" and "E" have 3 in. Dial
" "C" " "D" " 2⅝ "

Our Style "E" has a flat back and can be adjusted to a drop door where a smooth surface is required.

This cut shows our Style "D" or Clock Face Thermometer. The hand working from the center gives it considerable more movement and a change in the temperature of the oven is quickly noticed on dial.

Write us for circular and quotation.

MANUFACTURED BY

**Evans Stamping & Plating Co.**
TAUNTON, - - - MASS.

C. H. MATTHEWS, DETROIT, MICH., (Western Agent.)

## Kin Hee Quick Coffee Pot.

**WILL MAKE YOU MONEY**

It is different from any other coffee-pot.

**The Pulverized Coffee is Totally Submerged in the Boiling Hot Water**

It's quick. Perfect. Coffee made in one minute.
It's economical. Reliable. Durable and clean.
It's superior to all metal or bag straining systems.
Only a plain piece of brown muslin used as a straining cloth, to separate the liquor from the grounds.

Write for particulars to **James Heekin & Co.**
Manufacturers and Patentees,
Corner Water and Walnut Streets,
Cincinnati, Ohio.

Sole Owners and Manufacturers for the Dominion of Canada,
THE ERT, BLAIN CO., Ltd., Toronto, Canada.

**The Best Coffee is KIN HEE, packed only in one pound hermetically sealed cans - - - -**

# Tea Kettles Stove Kettles

and all other vessels necessary to equip the well arranged kitchen

**Manufactured by**

# Blacklock Foundry

**SOUTH PITTSBURG TENN.**

"H&A" Double Shot Guns "H&A"
Single Shot Guns
Small target Rifles
Revolvers

Most complete line made by any American Factory
write for Catalogue "A", it tells our story
The Hopkins and Allen Arms Co
Norwich Conn.

## DON ADAMS,

MORNING SUN, IA.,
WRITES:

"I subscribed for your paper one day, and obtained a position the next day."

**ARE YOU NOT ENTITLED TO A GOOD CHRISTMAS PRESENT?**

## "System Saves Time and Money"

"Boys, my father makes money by always having a place for his latest Catalog, Circulars and Price lists. See?"

WARREN'S CATALOG AND STATIONERY CABINET.

AN OFFICE BOY IN ITSELF.
REMOVES WORRY. HAS A PLACE FOR EVERYTHING.

Never delays in giving a prompt answer, telling correctly where each article is.

Saves time, money, trouble and temper by filing accurately all classifications. Insures quick service and exactness.

One of the most practical Filing Cases for the Merchant and Busy Man ever devised.

IT WORKS FOR YOU.

AND MAKES MONEY FOR YOU EVERY DAY IN THE YEAR.

IT PAYS FOR ITS COST IN THE SERVICE IT RENDERS.

## J. D. Warren Mfg. Co.

CHICAGO.

Expert Designers of Hardware Shelving and Correct Arrangement of Stock. Hardware Shelving to suit any Store, Person or Purse.

## Genuine Hunter's Sifters

We are the sole manufacturers and there is no other Sifter made that has the reputation or is any comparison to the GENUINE HUNTER'S.

The only Sifter with a loose cap on the handle, so as to clean out the flour that accumulates in it while the Sifter is in use.

## The Best in the World

Combined Mixer, Scoop, Measure, Dredger, Rice Washer, Pumpkin, Tomato, Wine, Starch and Fruit Strainer.

## The Fred J. Meyers Mfg. Co.,

HAMILTON, OHIO

# YOU MAY SWEAR

**By SHOVELS, SPADES and SCOOPS made by the Avery Stamping Co.**

Better ask for circulars of our specialties and catalog of the world-famed "NEVER-BREAK" wares which mean more trade for YOU.

**THE AVERY STAMPING CO., CLEVELAND, OHIO**

## OUR SPECIAL ATTENTION

is given to mail orders and we are proud of the reputation we have in this line. We are wholesalers of shelf hardware, house and bank trimmings, "Cutler's Easy" tools and cutlery.

**CUTLER HARDWARE CO.**

**WATERLOO, IOWA.**

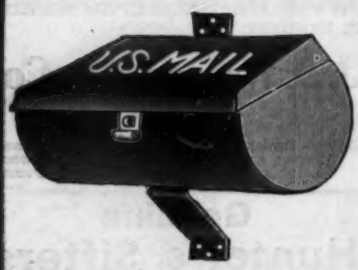
## C. G. FOLSOM,

Manufacturer of the

**"IDEAL RURAL MAIL BOX"**

Approved by Postmaster General. Agents Wanted.

*Address*—SOUTH BEND, IND.




## The Hessler

**Rural Mail Box**

Best and Cheapest. Adopted by the U. S. Government.

*Price $1.00. Dis. to the Trade.*

**H. E. Hessler Co.,**

Syracuse, N. Y.

## Our Tea Pot with Wood Handles & Enameled Covers

A specimen of our LAVA ENAMELED ware which strikingly combines the ornamental, the durable and the utilitarian.

**CLEVELAND STAMPING AND TOOL CO.**

**CLEVELAND, O.**

## E. R. Gardner, Monticello, Ia., writes:

"We take your paper and think it the best magazine ever published of its kind."

**FOR DELICIOUS TOAST**

## GAS TOASTER

RETAILS 25c

This may be a new article to you, and it deserves your attention.

**IT SAVES** time by toasting evenly and quickly on gas, gasoline or blue flame oil stoves directly over flame, and is ready for use as soon as placed on the flame.

**IT SAVES** fuel by confining the heat in such a manner that all heat developed is used. The only toaster for use over flames that leaves toast free from taste or odor. Made of best materials, riveted joints, no solder, lasts for years

ASK YOUR JOBBER.

**FAIRGRIEVE TOASTER MFG. CO.,**

A. C. SISMAN, Gen. Mgr.

289 Jefferson Ave., Detroit, Mich.

CANADIAN BRANCH, 295 College St., Toronto, O

## Locations for Industries.

Manufacturing is rapidly developing along the lines of the Chicago, Milwaukee & St. Paul Railway. Industries on a large scale now extend to the Mississippi River with indications of reaching the Missouri. Machinery and all the higher classes of manufactured goods are now being exported from this business territory to all parts of the world.

The Chicago, Milwaukee & St. Paul Railway Company's 6,600 miles of railway, exclusive of second track, connecting track or sidings, traverses eight states, namely:

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| NORTH DAKOTA | MINNESOTA | NORTHERN MICHIGAN |
| SOUTH DAKOTA | IOWA | WISCONSIN |
| Express Passenger Trains, Fast Freight Trains Throughout. | MISSOURI | ILLINOIS |

which comprise a territory full of natural resources and advantages. This railway is geographically well located in relation to the great markets and distributing centers. Beyond its lines is a vast and rapidly developing territory extending to the Pacific Coast.

The Company gives unremitting attention to the development of local traffic along its lines and, with this in view, seeks to increase the number of manufacturing plants on its system, either through their creation by local enterprise or the influx of manufacturers from the east. It has all its territory districted in relation to resources, adaptability and advantages for manufacturing. Specific information furnished manufacturers in regard to suitable locations. Address,

LUIS JACKSON,

Industrial Commissioner C., M. & St. P. R'y, 660 Old Colony Bldg., Chicago, Ill.

# "Yankee" Screw Drivers

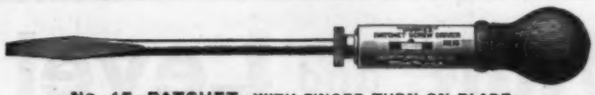
No. 12—RATCHET, WITH STUB BLADE

HAVE NO EQUALS.

THEY ARE SOLD BY LEADING JOBBERS.

Send for "Yankee" Tool Book.

No. 11—RATCHET, RIGHT AND LEFT HAND AND RIGID



No. 15—RATCHET, WITH FINGER TURN ON BLADE

No. 30—SPIRAL RATCHET, RIGHT AND LEFT HAND AND RIGID

**North Bros. Mfg. Co., Philadelphia, Pa.**

# BOLT AND SCREW CASES

"Revolving"

Will pay for themselves ten fold in saving of time. In general use by modern hardware dealers, machine shops, bicycle stores, pattern shops, etc.

For Sale by Hardware Jobbers.

For Catalogue "d" Address the Manufacturers

**AMERICAN BOLT & SCREW CASE CO.**
DAYTON, OHIO.

# A Remarkable Photograph Taken by a Wonderful Light.

The above photograph (greatly reduced) was taken at 9 p. m. in the store of Manchester, Gill & Dodds, of Skidmore, Mo. The store is 60x60 ft. and is lighted by only three

## "DORAN LIGHTS"

That three of them can light a store of this size and then give light to spare to permit of a photograph being taken, is a testimonial in itself.

**Send for Catalogue and Full Particulars.**

**ACORN BRASS MFG. CO.,**
Dept. H. CHICAGO, ILL.

# LIGHT

## The "Best" Light

**Brighter than Electricity or Acetylene and Cheaper than Kerosene**

Makes and burns its own gas. It is portable. Requires no pipes, wires or gas machine. A safe, pure white, powerful steady light. 100 candle power costs 2 cents for fifteen hours. Permitted by Fire Insurance Underwriters. No wicks to trim, no smoke or smell. Saving effected by its use quickly pays for it. Over 150 styles for indoor and outdoor use. This is the Pioneer Incandescent Vapor Gas Lamp. It is perfect. Beware of imitations. Agents wanted everywhere. Every lamp warranted. THE BEST LIGHT CO., 317 East Fifth Street, Canton, Ohio.

# LIGHT

# THE NULITE VAPOR GAS LAMPS

***For Home, Store and Street.***

The Nearest Approach to Sunlight and Almost as Cheap.

**ARC ILLUMINATORS** 750 CANDLE POWER. 7 HOURS TWO CENTS.

Make your stores light as day. A Hardware house writes us:

*"We like your lamps so well we are now working nights instead of days."*

We also manufacture TABLE LAMPS, WALL LAMPS, CHANDELIERS, STREET LAMPS, Etc. 100 Candle Power seven hours ONE CENT. No wicks. No Smoke. No Odor. Absolutely safe. THEY SELL AT SIGHT. Exclusive territory to good agents. Write for catalogue and prices.

CHICAGO SOLAR LIGHT CO., Dept. 9. CHICAGO.

The "Crown" Incandescent Gasoline Lights.

Latest and Most Perfect on the Market. Write for Catalogue and prices.

**The Whiteman Mfg. Co.**
CANTON . . O.

## M. Hosterman & Son, Marshfield, Wis., write

"You may take our ad out of THE AMERICAN ARTISAN as we have bought a kit of tools. We received 8 or 10 replies to the ad and think your paper all right."

Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

**All the World is Queer, 'Cept Thee and Me**

and thee is a little queer not to appreciate the "snaps" offered in our goods.

Long headed foresight has enabled us to offer our tools of the same **superlative quality** and **littleness** of **price, while our competitors** are advancing their prices and deteriorating their quality. Send for our Green Book of Hardware Specialties.

SMITH & HEMENWAY CO., Mfrs. Cutlery and Hardware Specialties, 396 Broadway, New York.

UTICA DROP FORGE & TOOL CO., MANUFACTURERS NIPPERS AND PLYERS

**Stanley Rule and Level Co.**

*IMPROVED CARPENTERS' TOOLS* Sold by All Hardware Dealers

NEW BRITAIN, CONN.

**ISN'T IT WORTH YOUR WHILE, MR. HARDWARE MAN?**

All you have guessed about Butler Brothers and their methods may be wrong.

Isn't it worth your while to find out why the retail stores which give us the bulk of their business are notoriously the busiest shops in town?

Isn't it worth your while to find why our catalogue, without one man on the road to back it up, sells more goods than four hundred traveling salesmen could sell?

Isn't it worth your while to fine why a Wholesale Department Store should sell more TINWARE than any other jobbing house in America of any sort?

Isn't it worth your while to find why Butler Brothers sell more SHELF HARDWARE than any of the exclusive houses—with the possible exception of two or three of the giants?

Isn't it worth your while to give serious heed to the policy of "branching out" which is being followed to-day with success by so many of the leaders in the retail hardware trade?

Isn't it worth your while to do those things which other good hardware men find count for more business and more profit?

In a nutshell, isn't it worth your while to send for a copy of our new January catalogue, just out, and get right down to the roots of the whole matter? A copy will cost you nothing but a simple request. Mention catalogue No. AA451.

**BUTLER BROTHERS,**

NEW YORK. CHICAGO. ST. LOUIS.

We Sell At Wholesale Only.

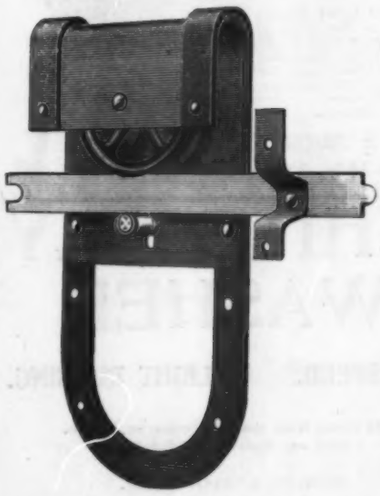
**Wm. Reckmeyer & Son,** Arlington, Neb. Write:

"Please discontinue advertisement in want column. We received replies from quite a number."

# Wagner Adjustable Never-Jump Roller Bearing Barn Door Hanger

Is an entirely new hanger made by people new to some, who are old in the hanger business.

It is a STAY-ON hanger and cannot be thrown from the track. Can be adjusted to take any size track from 1-inch to 1½-inch inclusive, retaining stay-on feature on all sizes of track.



The Spool is grooved so as to maintain the same clearance at all angles within its limits, which will enable a door to swing out 5 to 6 feet with a perfect bearing and without injury to the door or the hanger, the weight of the door bringing it back into place again.

This Hanger is made in two sizes, 3 or 4-inch, cast or steel wheels. Send for catalogue showing Lundy Parlor Door Hanger, Never Jump Hinge Hanger, Perfection Roller Bearings and Peerless Loose Axle (Endless Run) and other styles of barn door hanger rail.

**C. S. SMITH MFG. CO.,** Works, Milwaukee, Wis.
SOLE SALES AGENTS, **WAGNER & MARSHALL,** 40 Dearborn St., CHICAGO

# No other "Just-as-Good" as the Enterprise Food Chopper

TINNED — Now made in TWO sizes.

No. 100. Chops two pounds per minute, - - - $1.50
No. 300. Chops three pounds per minute, - - 2.25

FOUR KNIVES WITH EACH MACHINE.

Fine — Medium — Coarse — Nut Butter Cutter

Order from your jobber.
Catalogue mailed free.

**THE ENTERPRISE MFG. CO. OF PA.,** PHILADELPHIA, U. S. A.

NEW YORK BRANCH, 10 Warren Street. SAN FRANCISCO BRANCH, 105 Front Street.

# Peoria Washing Machines.

**BEST IN THE MARKET.**
**MADE WITH BALL-BEARINGS.**

Have a Compound Lever Handle which greatly reduces the work of wash days. The motion used in vibrating the handle takes the strain from the back and lets the arms do the work with a great reduction in labor.
**Send for Catalogue.**
**Secure the Agency.**

**CLARK, QUIEN & MORSE,**
**PEORIA, ILL.**

# TACKS

**TOWER M'F'G. CO.**
ELM & FRONT STS.
CINCINNATI, O.
**MANUFACTURERS**

# WHITE LILY WASHER

**HIGH SPEED. LIGHT RUNNING.**

**Sold direct from manufacturers to dealers.**
**Only one dealer in each town.**

**SEND US A TRIAL ORDER.**

**WHITE LILY WASHER CO.**
**TOLEDO, OHIO. DAVENPORT, IA.**
**SAN FRANCISCO, CAL.**

**White Lily Washers Wash Lily White.**

# Cash Registers.

**The Standard Cash Register wherever used by hardware dealers gives perfect and profitable satisfaction. Many thousands say so. Try one for profit. We have complete supply. Also Paper for all kinds of cash registers. Write for particulars.**

**J. N. BIDDLE & CO.**
**5479 Lexington Ave., CHICAGO.**

# Do You Know

That the **O. K. WASHING MACHINE** is the best made, the lightest running and the most attractive washer on the market? *Are you selling it? If not, why?* Every first-class dealer should sell it, because it is made of the best materials, by the best mechanics that can be obtained, and every one sold will sell another.

***Write us for Circulars and prices.***

**H. F. BRAMMER MFG. CO.** Dept. B **DAVENPORT, IOWA**

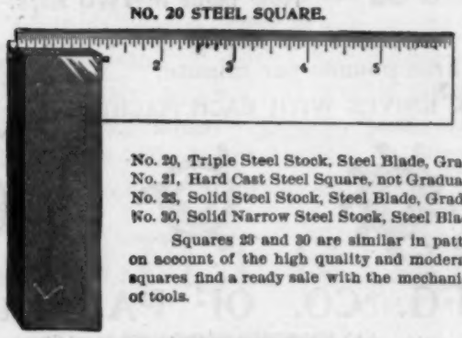
# DON'T Be Scared

**Mr. Hardware Dealer, in putting in a line of our Artistic Decorative Home Paints. Their durability and economy make them sure winners.**

**Buckeye Paint and Varnish Co.,**
**TOLEDO, O.**

# DISSTON MACHINISTS' SQUARES.

**NO. 20 STEEL SQUARE.**




**Tried Inside and Out.**

**—QUALITY—**
**SUPERIOR**

**—FINISH—**
**ACCURATE.**

No. 20, Triple Steel Stock, Steel Blade, Graduated, 1-32-inch.
No. 21, Hard Cast Steel Square, not Graduated.
No. 23, Solid Steel Stock, Steel Blade, Graduated, 1-16-inch.
No. 30, Solid Narrow Steel Stock, Steel Blade, not Graduated.

Squares 23 and 30 are similar in pattern to No. 20, and on account of the high quality and moderate price these two squares find a ready sale with the mechanics using this class of tools.

**SEE CATALOGUE FOR FULL LINE.**

# Henry Disston & Sons, INC.

**KEYSTONE SAW, TOOL, STEEL AND FILE WORKS,**
**PHILADELPHIA, PENNA.**

# To California

**Three trains Chicago to San Francisco and Los Angeles every day via**

THE NORTH WESTERN LINE
C & N W R'

**The Overland Limited, the luxurious electric-lighted train, leaves Chicago daily at 8 p. m. Less than three days en route. Two other daily trains leave Chicago at 10 a. m. and 11.30 p. m. All the luxuries of modern travel. Write for illustrated booklet and full particulars.**

**Chicago & North-Western Ry.,**
**W. B. KNISKERN,**
PASSG'R TRAFFIC MANAGER.
**CHICAGO.**

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LEE-GLASS ANDREESEN HARDWARE CO., OMAHA, NEB.

# IT KILLS

## KIRK GUN CO.'S NEW SINGLE GUN

**MADE FROM THE FINEST MATERIALS BY THE BEST WORKMEN**

| | | | | |
|---|---|---|---|---|
| No. 80—12 Gauge, 30-inch Barrel | | | | $8 50 |
| No. 81—16 " 30 " " | | | | 8 50 |
| No. 82—20 " 28 " " | | | | 8 50 |

**WITH EJECTOR**

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|---|---|---|---|---|
| No. 85—12 Gauge, 30-inch Barrel | | | | $9 50 |
| No. 86—16 " 30 " " | | | | 9 50 |
| No. 87—20 " 28 " " | | | | 9 50 |

Special Terms to the Trade

**FARWELL, OZMUN, KIRK & CO.**

WHOLESALE HARDWARE, ST. PAUL

**RED HOT SELLER**

**GLOGAU'S**

**Alcohol-Gas Stove.**

FAST SELLER wherever shown or exhibited. A boon for the Sick Room, Nursery, Camp, Light Housekeeping, Incubator, etc., or wherever gas is not available or desirable.

Makes its own gas; is portable; produces a lot of heat for little money. Consumes but 2 cents worth of alcohol in an hour; burns wickless; odorless. Cannot explode; can be upset without spilling the alcohol and never gets out of order. Weighs but 8 ozs.

For sale at your jobbers. Price to retailers, $8.00 dozen.

Sample sent postpaid on receipt of 70 cents, by

**GLOGAU & CO.,**

17 QUINCY ST. CHICAGO.

Agent Wanted for Mexico.

# "ROME"

## NICKEL PLATED COPPER WARE

Tea Kettles, Range Kettles, Tea and Coffee Pots, Wash Boilers, Etc.

**ROME MANUFACTURING COMPANY, ROME, N. Y.**

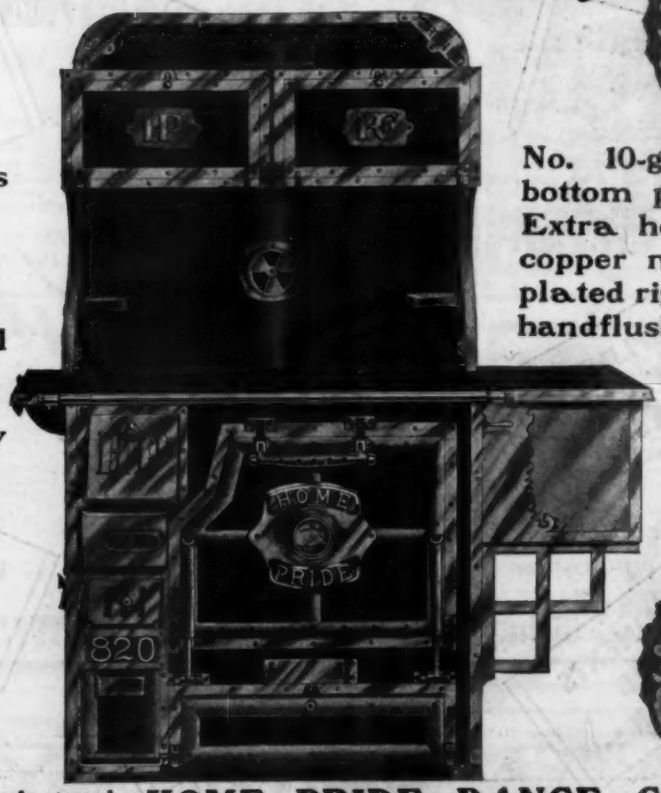
WRITE US FOR PRICES. Address Department A.

# Home Pride Malleable Steel Ranges

The 1903 patterns are superior to any others.

The weight and quality of material shows the class.

No. 16-gauge body blue steel, and black enameled with blue steel door trimmings.




No. 10-gauge oven bottom plate. Extra heavy copper nickel plated right and left handflush reservoirs.

Weight of fire box linings, including grates, 135 pounds.

Manufactured by the **HOME PRIDE RANGE CO.,** MARION, IND.

We know of a good many dealers who are striking it rich. Their names are familiar because we receive so many orders from them. We are glad to impart this information to all merchants whose trade in Enameled Steelware and Tin Ware isn't as paying as it ought to be. If your trade in these lines is falling behind you can inject new life into it by writing to our nearest office for catalogues and prices.

# Striking it Rich!

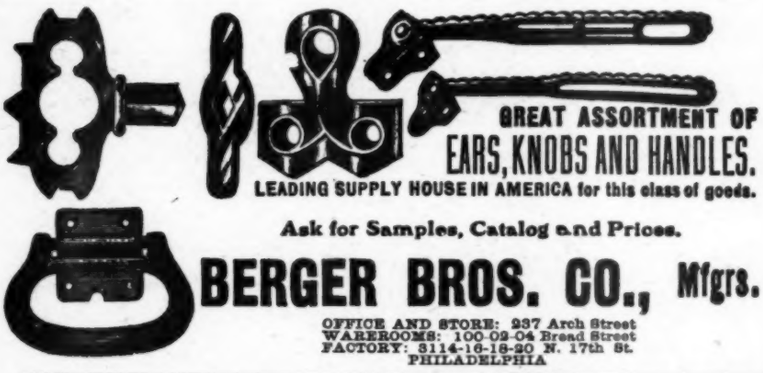
**NATIONAL ENAMELING & STAMPING CO.**

NEW YORK

BALTIMORE NEW ORLEANS

ST. LOUIS CHICAGO

MILWAUKEE



GREAT ASSORTMENT OF
EARS, KNOBS AND HANDLES.
LEADING SUPPLY HOUSE IN AMERICA for this class of goods.

Ask for Samples, Catalog and Prices.

BERGER BROS. CO., Mfgrs.

OFFICE AND STORE: 237 Arch Street
WAREROOMS: 100-02-04 Bread Street
FACTORY: 3114-16-18-20 N. 17th St.
PHILADELPHIA

THE Peerless Flue Stopper

Steel wire springs instead of sheet iron stays.
Stays where you put it, and is absolutely soot and smoke proof.
Made either plain or decorated.
Send for miniature sample and prices.

Welling Manufacturing Co.,
COLUMBUS, O.

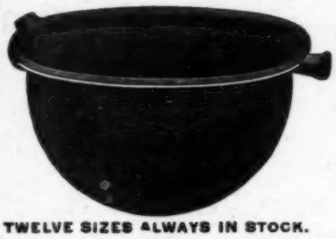
Clouds of Smoke

Are pouring from
IWAN'S REVOLVING CHIMNEY-TOPS
EVERY DAY

Used all over the U. S. The following and 54 other jobbers sell them:
Berger Bros. Co., Philadelphia, Pa.
Townley Metal & Hardware Co., Kansas City, Mo.
C. W. Hackett Hardware Co., St. Paul, Minn.

Write for Prices. Manufactured by
IWAN BROS., - STREATOR, ILL.

SPERRY'S CALDRONS....



Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our castings as patterns. They are inferior to original, as they have light bottoms and heavy sides and hold less.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
BATAVIA, ILL.

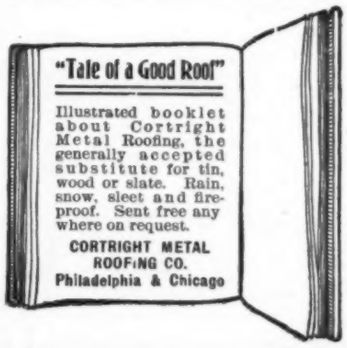
TWELVE SIZES ALWAYS IN STOCK.

American Family Scale.
BEST IN THE WORLD.

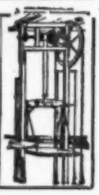
It is made of STEEL, TIN or BRASS Scoop Top.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20 pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use, and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

MANUFACTURED BY
AMERICAN CUTLERY CO.
CHICAGO, ILLINOIS.




ELEVATORS



Improved, Quick and Easy Rising Steam and Hand Power.
KIMBALL BROS. CO.
1061 9th St. Council Bluffs, Iowa
OMAHA BRANCH, 108-110-112 N. 11th St.

HOMESEEKERS EXCURSIONS
On FIRST and THIRD TUESDAYS in each Month to VIRGINIA
Via NORFOLK & WESTERN RAILWAY

For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address
ALLEN HULL, D. P. Agt., Columbus, Ohio

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.
SAGINAW, MICH.

**Don't Be Deceived** but insist on

**McClure's Genuine Charcoal Iron Redipped Roofing Tin.**

McCLURE & CO.,
Manufacturers of Tin Plate.

PITTSBURGH, PA., 211, 213 & 215 Second Ave.
PHILADELPHIA, PA. 115 North 7th Street.

**THE "CENTENNIAL" Rain-Water Cut-Off**

The strongest, most durable, and cheapest CUT-OFF on the market.
The only single Cut-Off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers. Patent applied for.
Manufactured only by
Cooney & Geiger,
19 and 21 E. South St., INDIANAPOLIS, INDIANA.

**"PULLMAN" Sash Balances**

Are you selling them?
In use Everywhere.
Look for the Metal Tapes in All New Buildings.
Folder No. 2 sent free.
PULLMAN SASH BALANCE CO.
Rochester, N. Y., U.S.A.

**EXCELSIOR FOR PACKING PURPOSES**
Ask for price F. O. B. Your station.
THEO. P. HUFFMAN & CO.
648 & 650 W. 34th Street, NEW YORK CITY.

**The WINNER 1-2 lb. HAMMER**

Nickel Plated, 12 inches long: Substantially made of the best material, handsomely finished Hickory Handle.
Full line of 10c. goods.
FRANKLIN SPECIALTY CO.,
629 Franklin St., READING, PA.
Boston Office, 64 Federal St.

We Make a Specialty of

**FURNACE MEN'S SUPPLIES**

**Heater Pipe Plates.**

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| IC..... | 20-26 | 20-28 | 20-29½ | 20-32½ |
| IXL..... | 20-28 | 20-29½ | 20-32½ | 20-39 |
| IX..... | 20-28 | 21-32½ | 20-39 | ..... |

Asbestos Cement, Paper and Anchor Paste, Excelsior and Perfection Hot Air Pipe, Jack Chains, Pulleys, U. S. Dampers and Clips, Hot Air Registers, Ventilators and Face Plates.

**THE J. M. & L. A. OSBORN COMPANY**
Cleveland and Columbus, Ohio.

**STEVENS**

**NEW MODEL POCKET RIFLE, No. 40**

This is a handy little Rifle and very popular among vacationists. It has a detachable skeleton stock. Can be easily packed in a grip, and weighs, according to length of barrel, from 2 to 2¾ pounds. Chambered for 22 Long Rifle R. F., 25 Stevens R. F., and 32 Long R. F.

| | | | |
|---|---|---|---|
| With | 10-inch | barrel | $ 9.25 |
| " | 12 " | " | 10.00 |
| " | 15 " | " | 11.25 |
| " | 18 " | " | 12.50 |

Have a Leather Case with Shoulder Strap for this at $1.75.

NO RETAILER CAN AFFORD TO BE WITHOUT OUR GOODS.

Your jobber can supply you. Send for Catalog.

**J. STEVENS ARMS & TOOL CO.**
NO. 245 BROADWAY
CHICOPEE FALLS, MASS.

**The "Globe" Ventilator**
In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

**For Perfectly Ventilating**
Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

**Smoky Chimneys Cured.**
"Globe" Ventilated Ridges. Send for Pamphlet.

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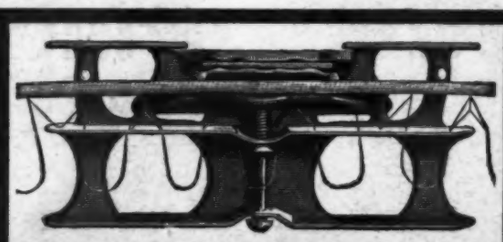

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